ORDER NO. RD82122047C3

Service Manual

Radio Cassette

RX-C50F

Portable Component System with 4 Band Radio

■ SPECIFICATIONS

General:

Power Requirement:	AC; 110~115/115~127/200~220/ 230~250 V, 50/60 Hz Battery; 12 V (Eight "D" Size Flashight Batteries) (National UM-1 or equivalent) Car battery; with optional car adaptor RP-952
Power Consumption:	34 W (AC only)
Power Output:	12 W (6 W×2) . . . RMS (max.) 34 W (17 W×2) . . . PMPO
Speaker:	Woofer; 8 cm (3") PM Dynamic Speaker (3Ω) Tweeter; 2 cm (3/4") Ceramic Speaker (2 kΩ)
Input:	MIC; sensitivity 0.25 mV/applicable microphone impedance 200~600Ω MIX MIC: sensitivity 0.8 mV/200~600Ω LINE IN; 200 mV/47 kΩ over DC IN; 13.2 V
Output:	Ext SP; 3Ω Headphones; 32Ω LINE OUT; 360 mV/4.7 kΩ under
Dimensions:	Total Size 432 (W)×133 (H)×166 (D) mm (17"×5 1/4"×6 9/16") Main Unit 243 (W)×133 (H)×166 (D) mm (9 9/16"×5 1/4"×6 9/16") Speaker Box 96 (W)×128 (H)×143 (D) mm (3 13/16"×5 1/16"×5 5/8")
Weight:	4.5 kg (9 lb. 15 oz.) without batteries

Radio Section:

Radio Frequency Range:	FM; 88~108 MHz MW; 525~1605 kHz (571~187 m) SW1; 2.3~7 MHz (130~42.9 m) SW2; 7~22 MHz (42.9~13.6 m)
Intermediate Frequency:	FM; 10.7 MHz AM (MW/SW); 455 kHz
Sensitivity:	FM; 2.2μV/50 mW output MW; 178μV/m/50 mW output SW1;126μV/m/50 mW output SW2;50μV/50 mW output

Tape Deck Section:

Frequency Response:	40~12,000 Hz (with normal tape) 40~14,000 Hz (with CrO_2 tape) 40~15,000 Hz (with Metal tape)
Recording system:	AC bias, AC erase
Tape Speed:	4.8 cm/s, (1 7/8 ips)
Wow and Flutter:	0.07% (WRMS)
Program Time:	1 hour with C-60 cassette tape
Track System:	4-track 2 channel stereo recording and playback

Specifications are subject to change without notice.

National

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS AND COMPONENTS

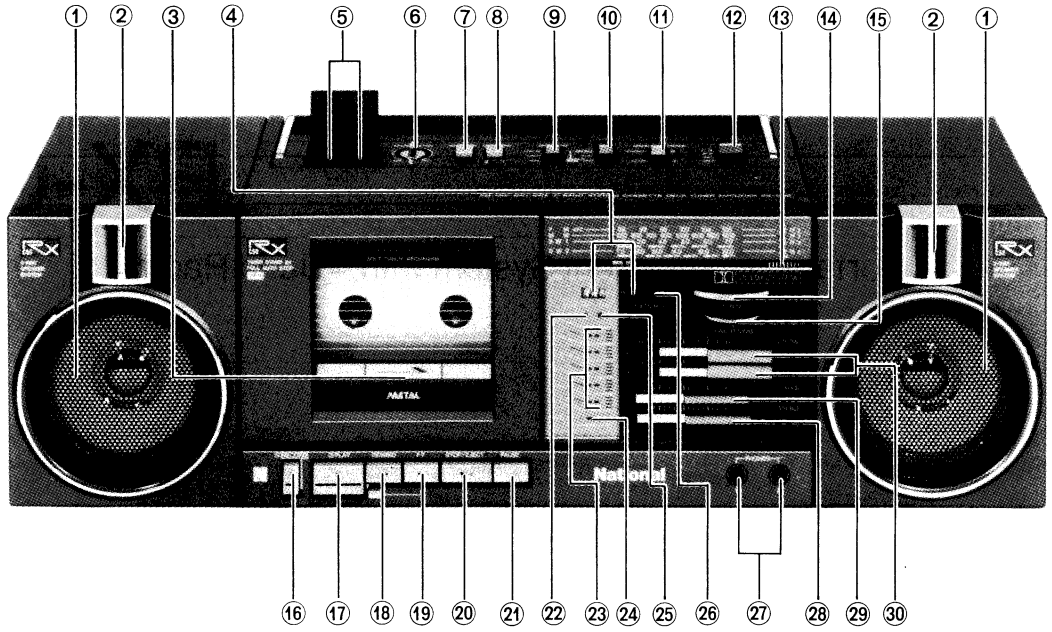


Fig. 1

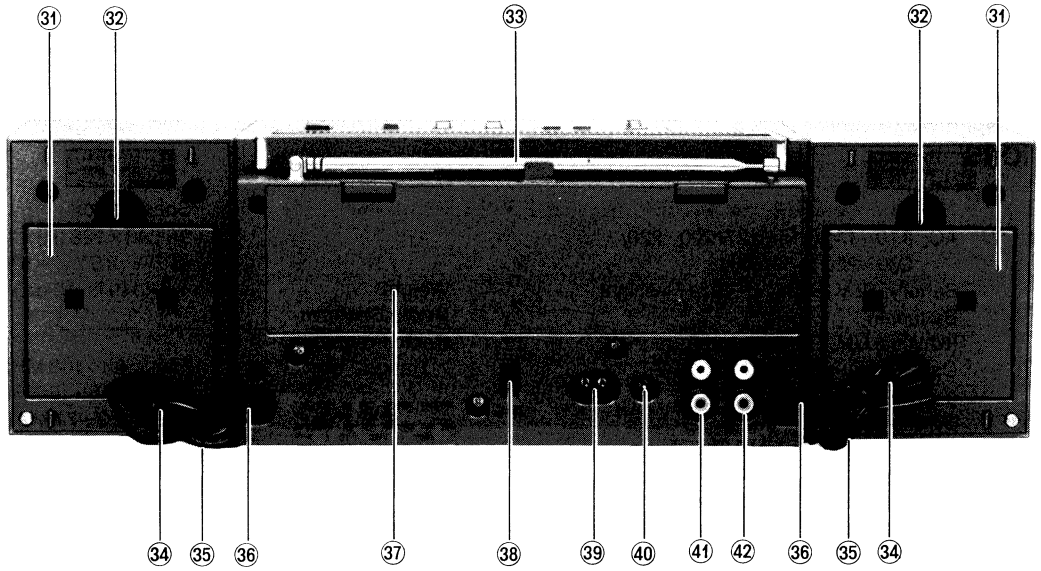


Fig. 2

① Speakers (Woofer), 8 cm (3''), 3Ω
② Speakers (Tweeter), 2 cm (3/4''), 2 kΩ
③ Cassette Compartment
④ Tape Counter and Reset Button
⑤ Microphone Jacks (MIC), 0.25 mV (200~600Ω)
⑥ Mixing Level Control (MIXING LEVEL)
⑦ Record Muting Switch (REC MUTE)
⑧ *Dolby Noise Reduction Switch (DOLBY NR)
⑨ Function Switch (LINE IN/RADIO/TAPE)
⑩ Tape Switch (METAL/CrO_2/NOR)
⑪ Mode/Beat Proof Switch (STEREO/II, MONO/I)
⑫ Band Switch (FM/MW/SW1/SW2)
⑬ Built-in Microphone (MIC)
⑭ Tuning Control (TUNING)
⑮ Fine Tuning Control (FINE TUNING)
⑯ Record Button (RECORD)
⑰ Playback Button (PLAY)
⑱ Rewind Button (REW)
⑲ Fast Forward Button (FF)
⑳ Stop/Eject Button (STOP/EJECT)
㉑ Pause Button (PAUSE)
㉒ *Dolby Noise Reduction Indicator (DOLBY NR)
㉓ Level Meter (LEVEL)
㉔ Power/Battery Check Indicator (POWER/BATT)
㉕ Tape Program Sensing Indicator (TPS)
㉖ FM Stereo Indicator (FM STEREO)
㉗ Headphone Jacks (PHONES), 32Ω
You can listen to the sound through the two headphones
When connecting to Jack "1" only . . .
The Built-in Speakers will be disconnected.
When connecting to Jack "2" only . . .
The sound will be heard through the Speakers.
when connecting to both Headphone Jacks; "1" and "2".
㉘ Treble Control (TREBLE)
㉙ Bass Control (BASS)

㉚ Volume Controls (VOLUME)
㉛ Speaker Cable Compartments
㉜ Speaker Wall Mounts
㉝ Telescopic Antenna
㉞ Speaker Cables
㉟ Speaker Release Levers (RELEASE)
㊱ Speaker Jacks, 3Ω

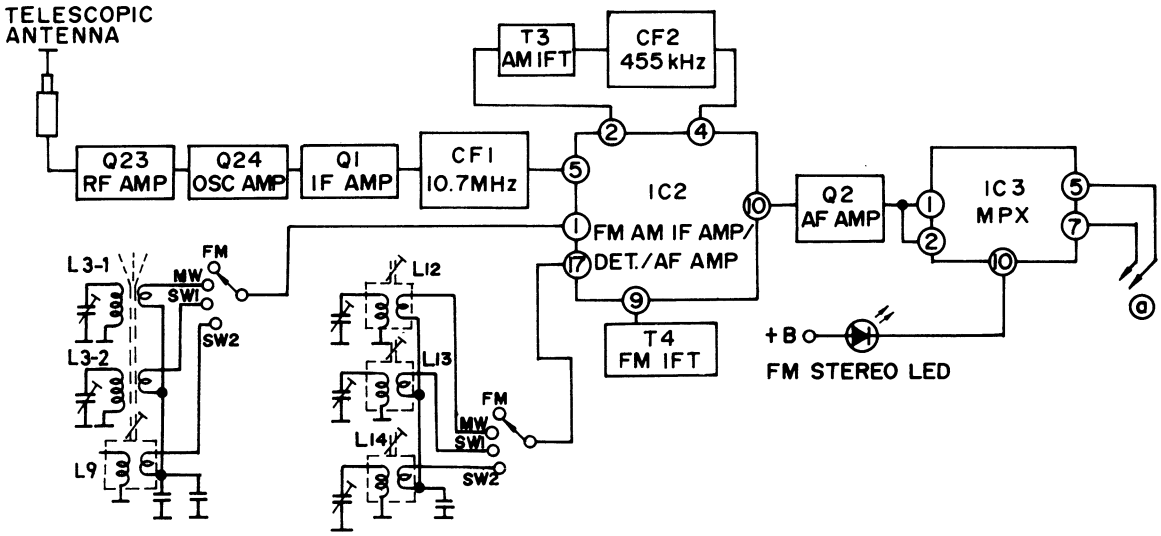
㊲ Battery Compartment
㊳ Voltage Selector (VOLTAGE SELECTOR)
㊴ AC Socket (AC IN ~)
㊵ DC Input Jack (DC IN 13.2 V ⊖⊙⊕)
㊶ Line Input Jacks (LINE IN), 200 mV/47 kΩ
㊷ Line Output Jacks (LINE OUT), 360 mV/4.7 kΩ

DOLBY SYSTEM

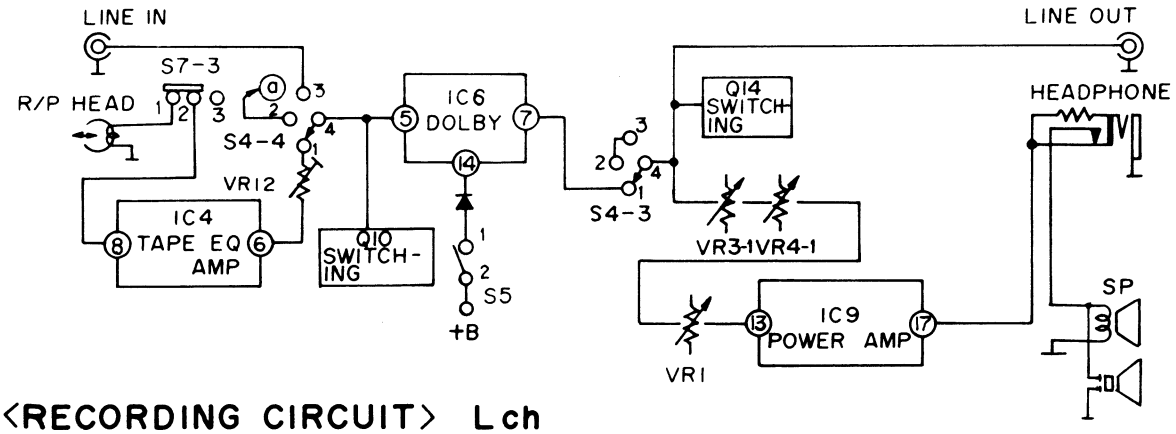
*"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
*Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

BLOCK DIAGRAM

<RADIO CIRCUIT>



<PLAYBACK CIRCUIT> Lch



<RECORDING CIRCUIT> Lch

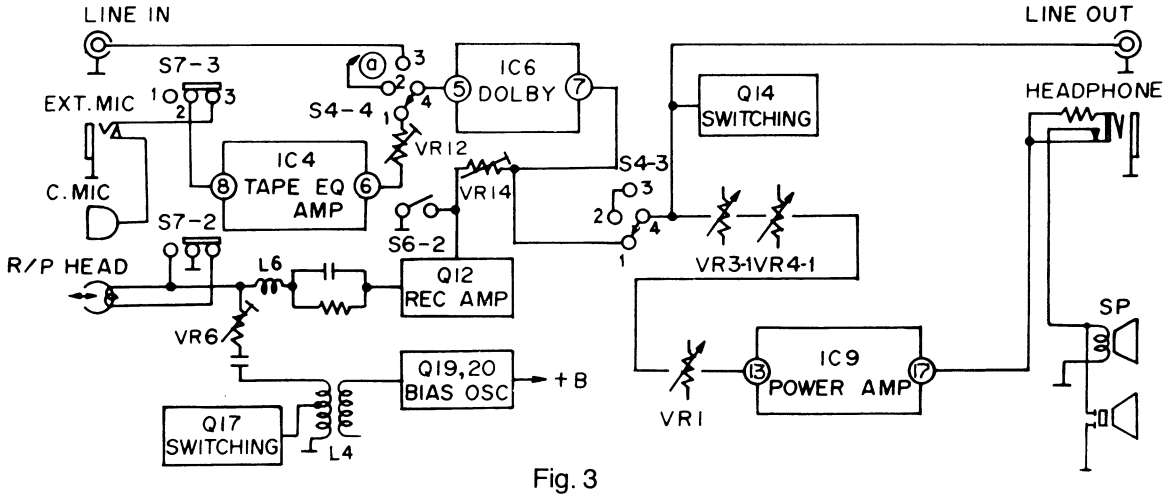


Fig. 3

DISASSEMBLY INSTRUCTIONS

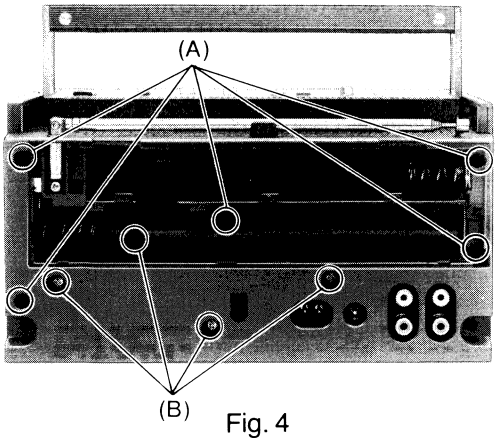


Fig. 4

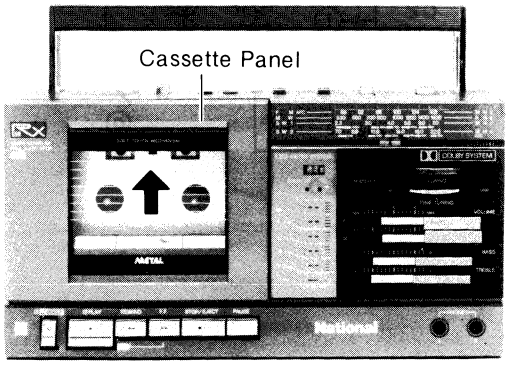


Fig. 5

Fig. 6

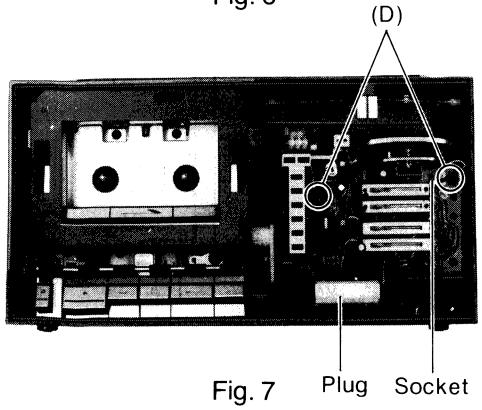


Fig. 7

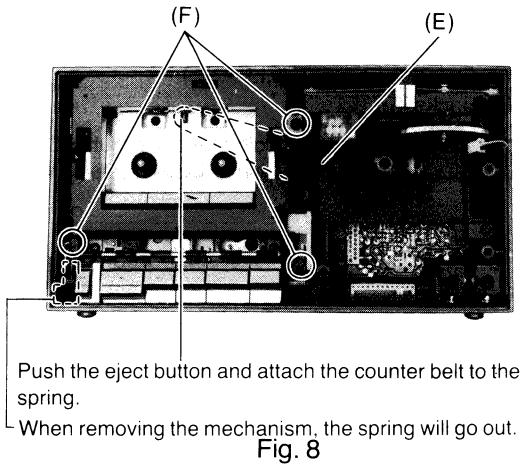

(F)
(E)
Push the eject button and attach the counter belt to the cassette spring.
When removing the mechanism, the spring will go out.

Fig. 8

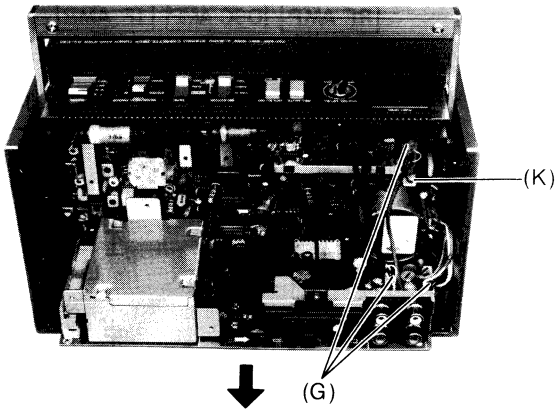


Fig. 9

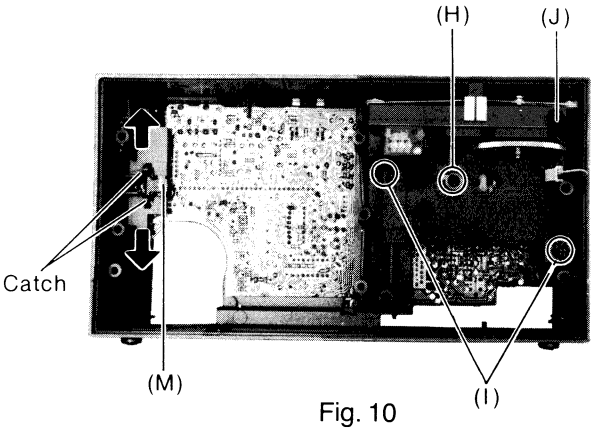


Fig. 10

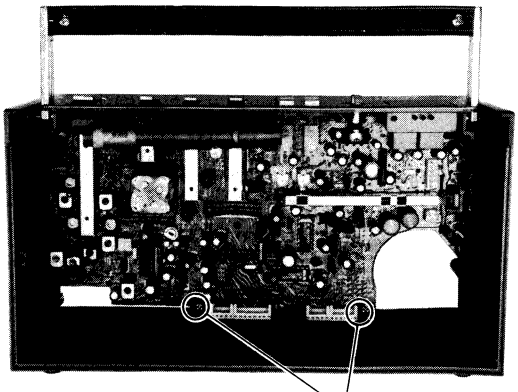


Fig. 11

DIAL THREADING

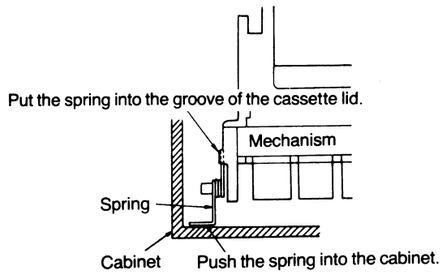


Fig. 12

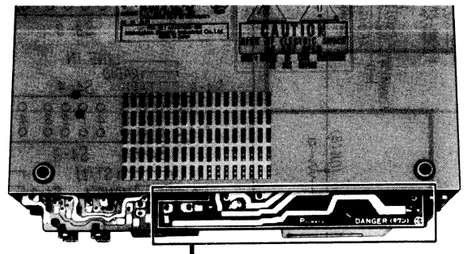


Fig. 13

Cord length is 70 cm (27 9/16")

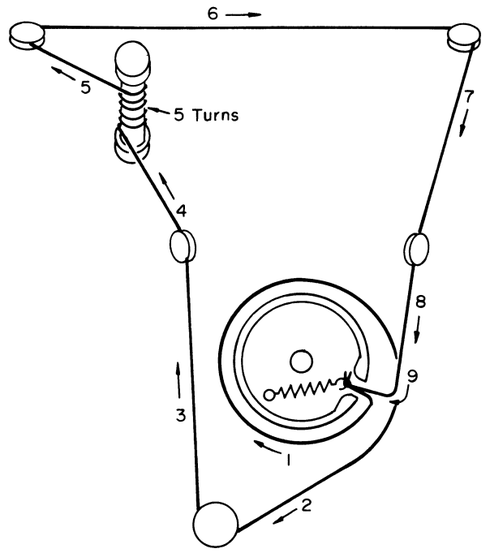


Fig. 14

Procedure	To remove—.	Remove—.	Shown in Fig.—.
1	Rear Cabinet	Screw (3×60) ..... (A)×5	4
2		Screw (3×6) ..... (B)×4	4
3	Front Cabinet *1	Push the eject button	—
4		Remove the cassette panel in the direction of arrow.	5
5		Knob ..... (C)×4	6
6	Volume Circuit Board	Screw (3×12) ..... (D)×2	7
7		Remove the socket and pull the plug.	7
8	Mechanism *2	Push the eject button and attach the counter belt to the cassette spring ..... (E)×1	8
9		Screw (3×12) ..... (F)×3	8
10		Socket ..... (G)×3	9
11	Dial Chassis *3	Screw (2.6×5) ..... (H)×1	10
12		Screw (3×12) ..... (I)×2	10
13		Microphone ..... (J)×1	10
14	Power source and amplifier circuit board	Socket ..... (K)×1	9
15		Pull the circuit board in the direction of arrow.	9
16	Radio circuit board	Screw (3×12) ..... (L)×2	11
17		Push the catch in the direction of arrows and remove the R/P lever ..... (M)×1	10

*1. Fix the knob as shown in fig. 6.
*2. Fix the spring as shown in fig. 12.
*3. Turn the dial drum and tuning capacitor shaft fully counter-clockwise.

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set bass and treble control to center.
3. Set band switch to MW, SW1, SW2 or FM.
4. Set mode switch to stereo.
5. Set function switch to radio.
6. Set fine tuning to center.
7. Set power source voltage to 12 V DC.
8. Output of signal generator should be no higher than necessary to obtain an output reading.

■ MW, SW1 and SW2 ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
			AM-IF ALIGNMENT				
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/ about 600 kHz)	Output meter across voice coil.	T3 (AM IFT)	Adjust for maximum output.
			MW-RF ALIGNMENT				
(2)	MW	,,	550 kHz	550 kHz (Refer to Fig. 19)	Output meter across voice coil	L12 (MW OSC Coil) (*1) L3-1 (MW ANT Coil)	Adjust for maximum output. Adjust L3-1 by moving coil bobbin along ferrite core.
(3)	MW	,,	1500 kHz	1,500 kHz (Refer to Fig. 19)	,,	CT5 (MW OSC Trimmer) CT3 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
			SW1-RF ALIGNMENT				
(4)	SW1	,,	2.3 MHz	2.3 MHz (Refer to Fig. 19)	Output meter across voice coil	L13 (SW1 OSC Coil) (*1) L3-2 (SW1 ANT Coil)	Adjust for maximum output. Adjust L3-2 by moving coil bobbin along ferrite core.
(5)	SW1	,,	7 MHz	7 MHz (Refer to Fig. 19)	,,	CT6 (SW1 OSC Trimmer) CT4 (SW1 ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
	(*1) Cement antenna bobbin with wax after completing alignment.						
			SW2-RF ALIGNMENT				
(6)	SW2	Connect to test point ▼ through ceramic capacitor (10 pF). Negative side to test point ▼.	7 MHz	7 MHz (Refer to Fig. 19)	Output meter across voice coil	L14 (SW2 OSC Coil) L9 (SW2 ANT Coil)	Adjust for maximum output.
(7)	SW2		22 MHz	22 MHz (Refer to Fig. 19)	,,	CT7 (SW2 OSC Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
			FM-IF ALIGNMENT				
(1)	FM	High side thru. 0.001μF to test point ▼. Negative side to test point ▼.	10.7 MHz (SWP.)	Point of non-interference. (on/ about 90 MHz)	Connect vert. amp. of scope to test point ▼. Negative side to test point ▼.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 16).
(2)	FM	,,	,,	,,	,,	T4 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 17).
			FM-RF ALIGNMENT				
(3)	FM	Connect to test point ▼ through FM dummy antenna. Negative side to test point ▼.	90 MHz	90 MHz (Refer to Fig. 19)	Output meter across voice coil.	L2 (FM OSC Coil) L1 (FM ANT Coil)	(*2) Adjust for maximum output.
(4)	FM		106 MHz	106 MHz (Refer to Fig. 19)	,,	CT2 (FM OSC Trimmer) CT1 (FM ANT Trimmer)	(*2) Adjust for maximum output. Repeat steps (3) and (4).
	(*2) Three output responses will be present; proper tuning is the center frequency.						

■ SEPAR

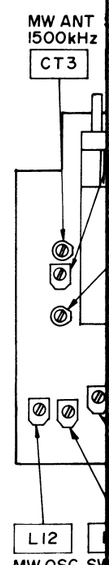
ITE
Adjustm pilot sig

■ AUDIO

ITE
Azimuth
Playbac gain
LED r
Bias oscillati frequer
Eras curre
Re bia
R/P ga

●As for t

■ ALIGN



MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set bass and treble control to center.
3. Set band switch to MW, SW1, SW2 or FM.
4. Set mode switch to stereo.
5. Set function switch to radio.
6. Set fine tuning to center.
7. Set power source voltage to 12 V DC.
8. Output of signal generator should be no higher than necessary to obtain an output reading.

■ MW , SW1 and SW2 ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		AM-IF ALIGNMENT					
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz)	Output meter across voice coil.	T3 (AM IFT)	Adjust for maximum output.
		MW-RF ALIGNMENT					
(2)	MW	,,	550 kHz	550 kHz (Refer to Fig. 19)	Output meter across voice coil	L12 (MW OSC Coil) (*1) L3-1 (MW ANT Coil)	Adjust for maximum output. Adjust L3-1 by moving coil bobbin along ferrite core.
(3)	MW	,,	1500 kHz	1,500 kHz (Refer to Fig. 19)	,,	CT5 (MW OSC Trimmer) CT3 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
		SW1-RF ALIGNMENT					
(4)	SW1	,,	2.3 MHz	2.3 MHz (Refer to Fig. 19)	Output meter across voice coil	L13 (SW1 OSC Coil) (*1) L3-2 (SW1 ANT Coil)	Adjust for maximum output. Adjust L3-2 by moving coil bobbin along ferrite core.
(5)	SW1	,,	7 MHz	7 MHz (Refer to Fig. 19)	,,	CT6 (SW1 OSC Trimmer) CT4 (SW1 ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
	(*1) Cement antenna bobbin with wax after completing alignment.						
		SW2-RF ALIGNMENT					
(6)	SW2	Connect to test point ▼1 through ceramic capacitor (10 pF). Negative side to test point ▼2.	7 MHz	7 MHz (Refer to Fig. 19)	Output meter across voice coil	L14 (SW2 OSC Coil) L9 (SW2 ANT Coil)	Adjust for maximum output.
(7)	SW2		22 MHz	22 MHz (Refer to Fig. 19)	,,	CT7 (SW2 OSC Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		FM-IF ALIGNMENT					
(1)	FM	High side thru. 0.001 μF to test point ▼3. Negative side to test point ▼2.	10.7 MHz (SWP.)	Point of non-interference. (on/about 90 MHz)	Connect vert. amp. of scope to test point ▼4. Negative side to test point ▼2.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 16).
(2)	FM	,,	,,	,,	,,	T4 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 17).
		FM-RF ALIGNMENT					
(3)	FM	Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼2.	90 MHz	90 MHz (Refer to Fig. 19)	Output meter across voice coil.	L2 (FM OSC Coil) L1 (FM ANT Coil)	(*2) Adjust for maximum output.
(4)	FM		106 MHz	106 MHz (Refer to Fig. 19)	,,	CT2 (FM OSC Trimmer) CT1 (FM ANT Trimmer)	(*2) Adjust for maximum output. Repeat steps (3) and (4).
	(*2) Three output responses will be present; proper tuning is the center frequency.						

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	90 MHz, 60 dB (Mod CW)	▼5 . . . (+) ▼2 . . . (−)	VR11	19 kHz	Adjust VR11 for 19 kHz (±150 Hz) reading on electronics counter.

■ AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8 kHz, −20 dB)	SP	Maximum output.	Azimuth screw	Playback mode
Playback gain	QZZCFM (315 Hz, 0 dB)	LINE OUT	360 mV±1 dB	VR12 (Lch) VR13 (Rch)	Playback mode
LED meter	QZZCFM (315 Hz, 0 dB)	Meter	———	VR9	Adjust VR9 so that the red LED begins to fade out.
Bias oscillation frequency	———	▼6 . . . (+) ▼E7 . . . (−)	67±0.5 kHz	L4	Record mode Beat proof switch→II Tape selector→Metal
Erase current	Use metal tape	▼10 . . . (+) ▼E7 . . . (−)	150±10 mV	VR8	Record mode Beat proof switch→II Tape selector→Metal
Rec bias	Use metal tape	▼10 . . . (Lch) ▼20 . . . (Rch) ▼10 . . . (−)	Metal 9.6±0.5	Metal VR6 (Lch) VR7 (Rch)	Record mode Beat proof switch→II Tape selector→Metal
R/P gain	LINE IN f = 1 kHz, −34 dB	LINE OUT	36±8 mV	VR14 (Lch) VR5 (Rch)	1. Place UNIT into record mode, and tape selector to normal. 2. Supply 1 kHz (−34 dB) from AF oscillator to LINE IN. 3. Playback recorded tape, and make sure the value at LINE OUT on the electronics voltmeter becomes 36 mV±8 mV.

●As for test points, refer to the circuit board, on page 10.

■ ALIGNMENT POINT

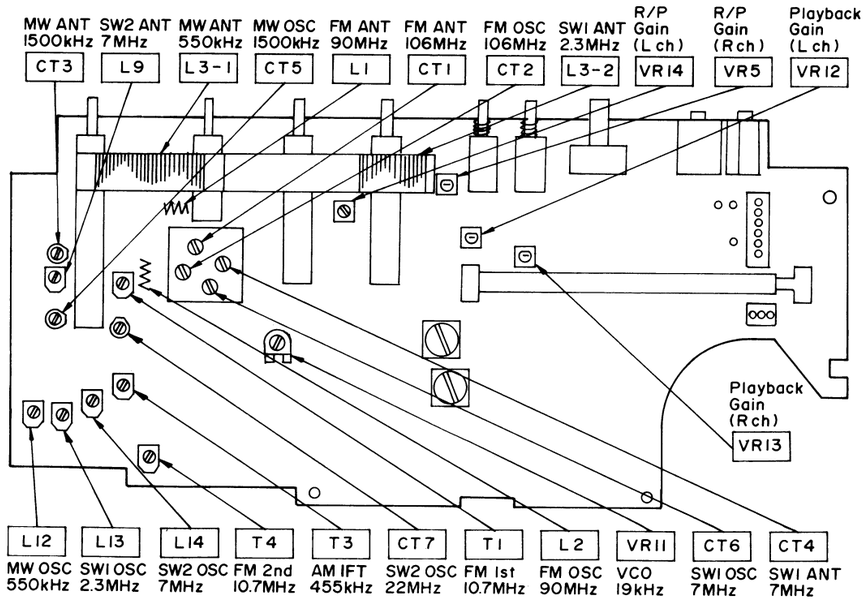

MW ANT 1500kHz CT3
SW2 ANT 7MHz L9
MW ANT 550kHz L3-1
MW OSC 1500kHz CT5
FM ANT 90MHz L1
FM ANT 106MHz CT1
FM OSC 106MHz CT2
SW1 ANT 2.3MHz L3-2
R/P Gain (L ch) VR14
R/P Gain (R ch) VR5
Playback Gain (L ch) VR12
Playback Gain (R ch) VR13
L12 MW OSC 550kHz
L13 SW1 OSC 2.3MHz
L14 SW2 OSC 7MHz
T4 FM 2nd 10.7MHz
T3 AM IFT 455kHz
CT7 SW2 OSC 22MHz
T1 FM 1st 10.7MHz
L2 FM OSC 90MHz
VR11 VCO 19kHz
CT6 SW1 OSC 7MHz
CT4 SW1 ANT 7MHz

Fig. 15

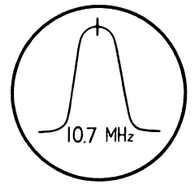


Fig. 16

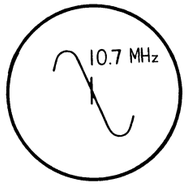


Fig. 17

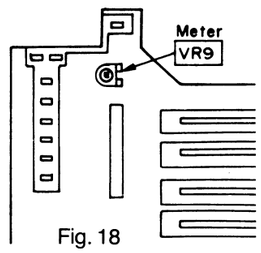


Fig. 18

Notes:

1. S1-1~S1-8: Band switch in "FM" position.
   (1 . . . FM, 2 . . . MW, 3 . . . SW1, 4 . . . SW2)
2. S2-1, S2-2: Mode/Beat Proof switch in "STEREO/II" position.
   (1 . . . STEREO/II, 3 . . . MONO/I)
3. S3-1~S3-6: Tape switch in "NOR" position.
   (1 . . . NOR, 2 . . . CrO_2, 3 . . . METAL)
4. S4-1~S4-6: Function switch in "TAPE/POWER OFF" position.
   (1 . . . TAPE/POWER OFF, 2 . . . RADIO,
   3 . . . LINE IN)
5. S5: Dolby Noise Reduction switch in "OUT" position.
   (1 . . . OUT, 3 . . . IN)
6. S6-1, S6-2: Record Muting switch in "OFF" position.
7. S7-1~S7-10: Record/Playback switch in "Playback" position.
   (1 . . . Playback, 3 . . . Recording)
8. S8: AC/DC switch in "DC" position.
9. S9: Playback switch.
10. S10: FF/REW switch.
11. S11: Motor switch.
12. S12: Amplifier switch.
13. S13: Voltage Selector.
14. VR1, 2: Volume control VR
    VR3: Bass control VR
    VR4: Treble control VR
    VR5, 14: R/P gain adjustment VR
    VR6, 7: Recording bias adjustment VR
    VR8: Erase current adjustment VR
    VR9: Meter adjustment VR
    VR11: VCO adjustment VR
    VR12, 13: Playback gain adjustment VR
    L4: Bias oscillation frequency adjustment.
15. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    < > . . . FM position, ( ) . . . AM position,
    [ ] . . . Recording position.
16. Battery current: No signal . . . . . 140 mA
    Maximum output (radio) 1.15A
    Maximum output (tape) 1.2A
17. The marks (*) shows printed-type resistors.
18. Important safety notice
    Components identified by ⚠ mark have special characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.

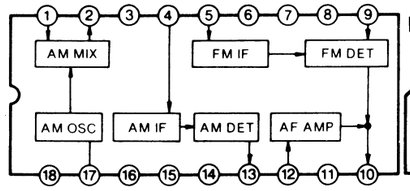
OVERALL FREQUENCY RESPONSE

Normal	100 Hz	3±5 dB	CrO_2	100 Hz	3±5 dB
	1 kHz	0 dB		1 kHz	0 dB
	10 kHz	0±6 dB		10 kHz	0±6 dB
Metal	100 Hz	3±5 dB			
	1 kHz	0 dB			
	10 kHz	0±6 dB			

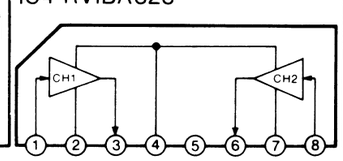
BIAS VOLTAGE
5.0±0.6 mV (Normal)
6.5±0.7 mV (CrO_2)
9.6±0.5 mV (Metal)

+ Ⓑ Voltage Line
Radio (FM) Signal Line
Tape (PLAY BACK) Signal Line
Tape (RECORD) Signal Line

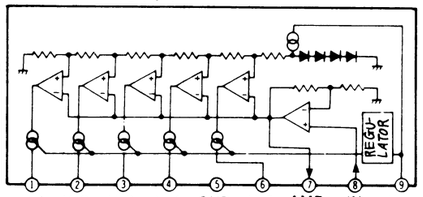
IC2 AN7220A



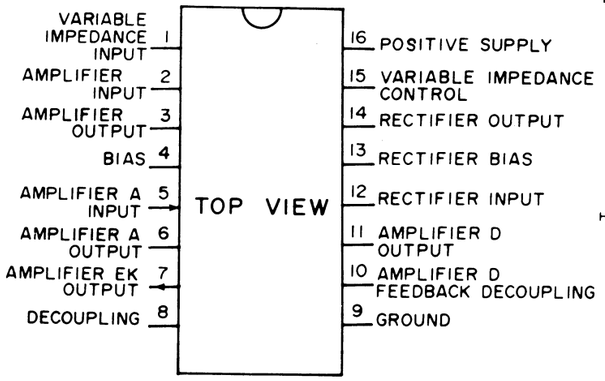
IC4 RVIBA328



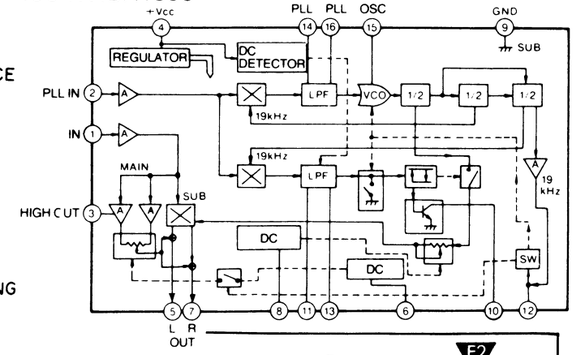
IC8 RVIBA6154



IC5,6 RVILM1112BN



IC3 RVIBA1356



■ **ALIGNMENT POINT**

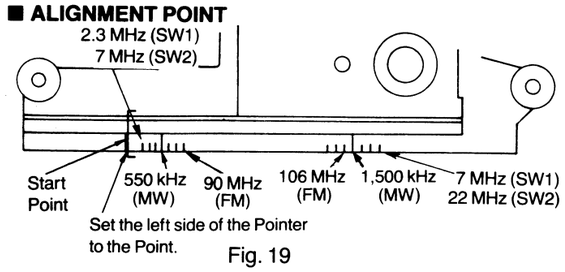


Fig. 19

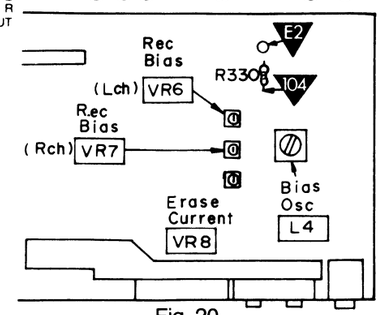
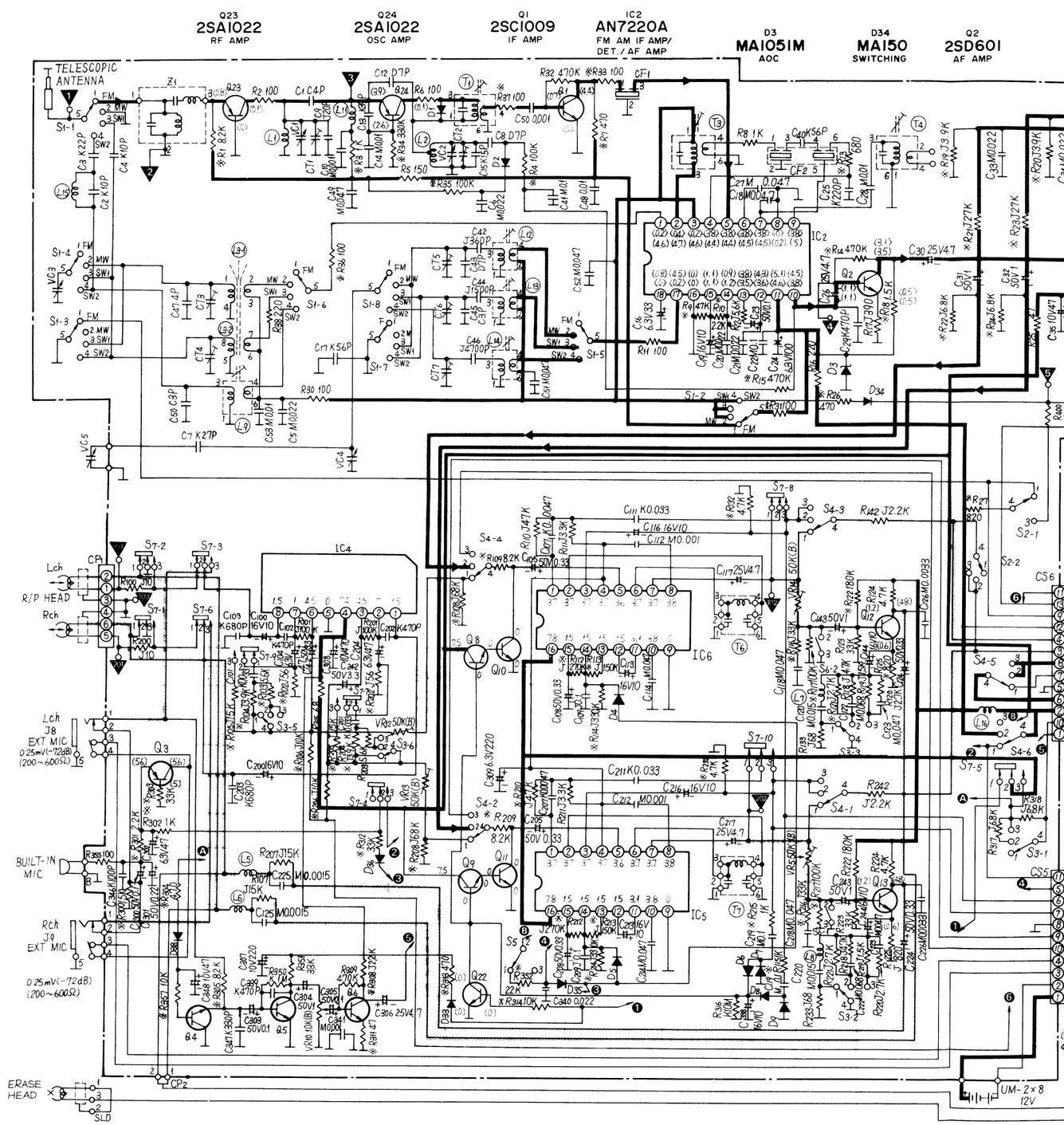


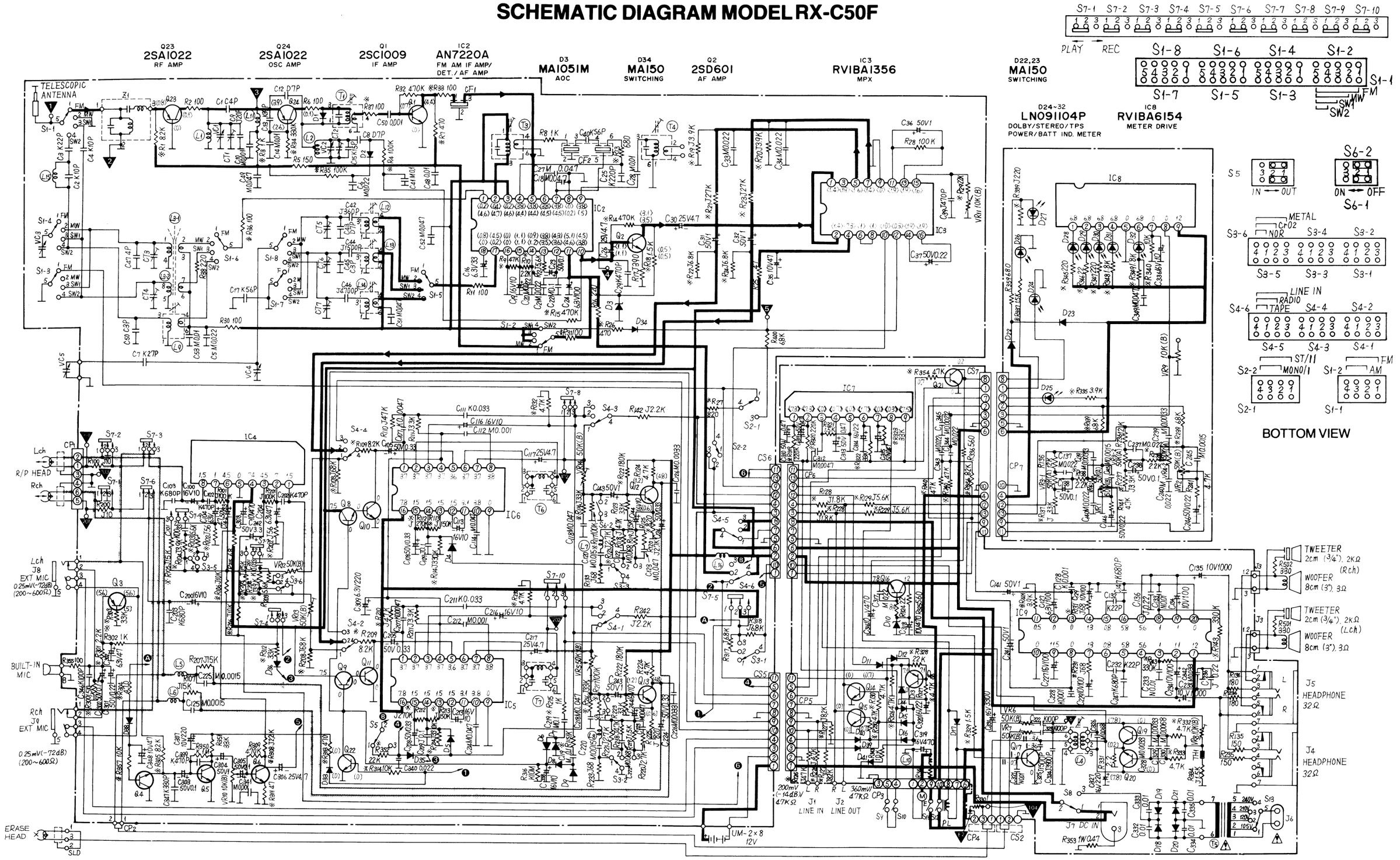
Fig. 20

SCHEMATIC DIAGRAM MODEL



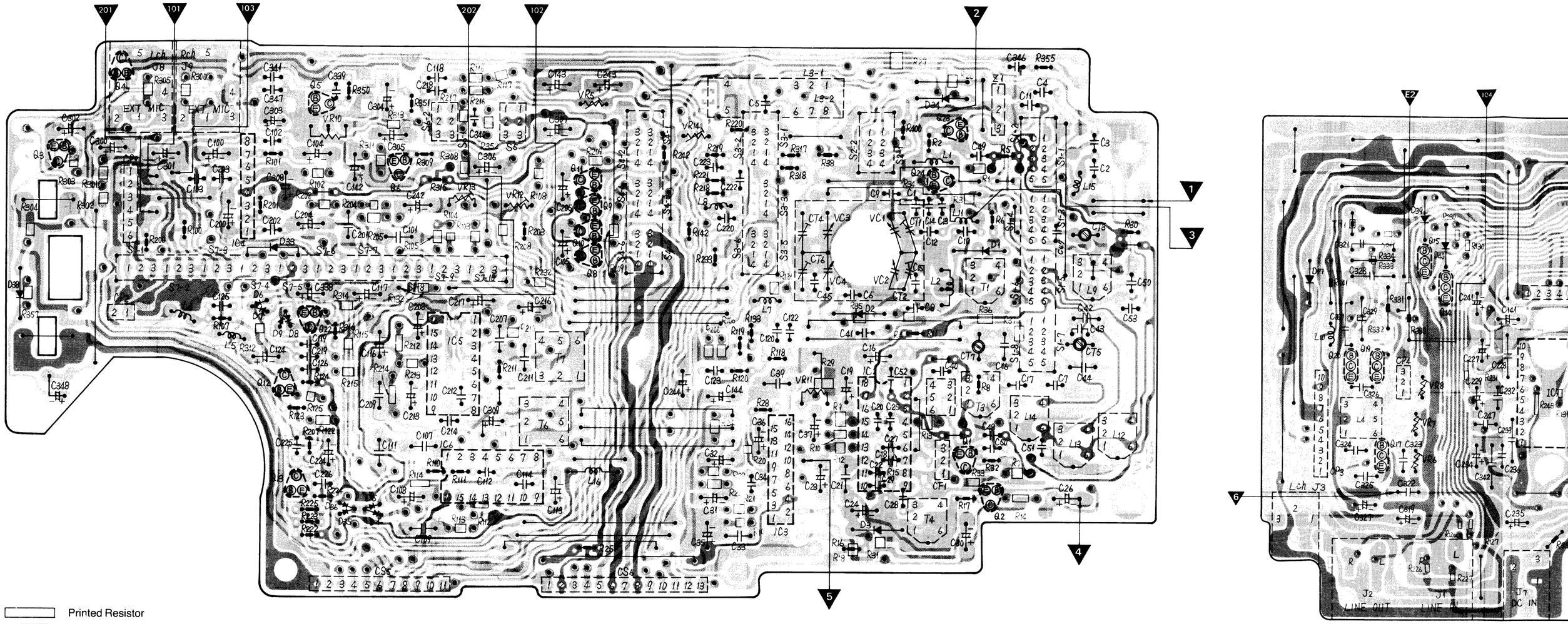
Q3 2SB709 SWITCHING
IC4 RVIBA328 TAPE AMP
D35,36 MA151WK SWITCHING
Q8,9 2SD601 AGC
D33 MA150 SWITCHING
Q22 2SD601 SWITCHING
Q10,11 2SC1622 AGC
D4,5 MA151WA SWITCHING
IC5,6 RVILM1112BN LINE/DOLBY AMP
D6~9 MA153 RECT
Q12,13 2SD601 REC AMP
Q21 2SC945 SWITCHING
IC7 RVIBA370 TPS
D38 MA150 SWITCHING
Q4 2SD601 MUTING
Q5,6 2SD601 MIC AMP

SCHEMATIC DIAGRAM MODEL RX-C50F



Q3 2SB709 SWITCHING
IC4 RVIBA328 TAPE AMP
D35,36 MA151WK SWITCHING
Q8,9 2SD601 AGC
D33 MA150 SWITCHING
Q22 2SD601 SWITCHING
Q10,11 2SC1622 AGC
D4,5 MA151WA SWITCHING
IC5,6 RVILM1112BN LINE/DOLBY AMP
D6~9 MA153 RECT
Q12,13 2SD601 REC AMP
Q21 2SC945 SWITCHING
IC7 RVIBA3706 TPS
Q14,15 2SD636 MUTING
D11~13,15,16,39~41 MA150 SWITCHING
D14 MA27WA SWITCHING
Q16 2SC1568 REGULATOR
Q17 2SC945 BEAT PROOF
IC9 RVILA4505 POWER AMP
Q19,20 2SC1317 REC BIAS OSC
D18~21 RVD10E1 RECT
D38 MA150 SWITCHING
Q4 2SD601 MUTING
Q5,6 2SD601 MIC AMP
D10 MA1082M AOC
Q18 2SA564 MUTING
D17 RVDIN4003A SWITCHING

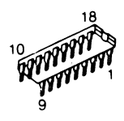
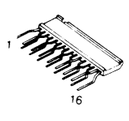
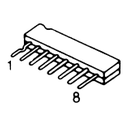
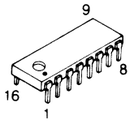
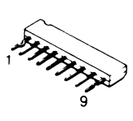
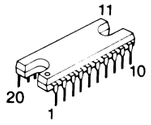
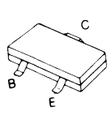
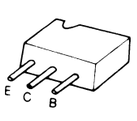
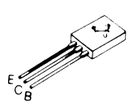
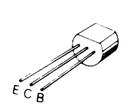
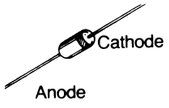
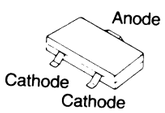
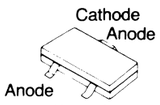
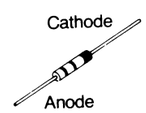
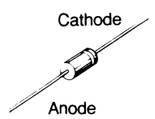
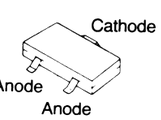
CIRCUIT BOARD MODEL RX-C50F



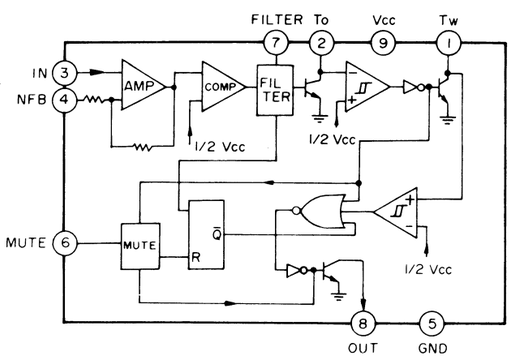
Printed Resistor

Through Hole

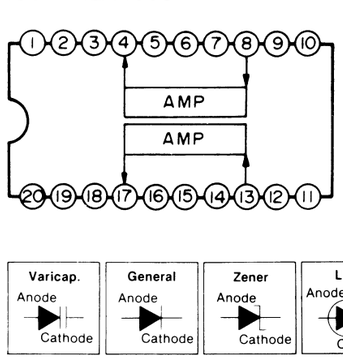
Conductive Paint

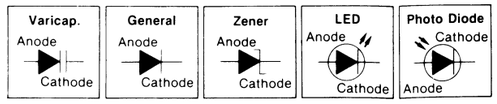
 IC2	 IC3	 IC4	 IC5,6	 IC7, 8	 IC9	 Q1~6, 8~13, 22~24	 Q14,15
 Q16	 Q17~21	 D1~3, 11~17 22, 23~34, 38~41	 D4,5	 D6~9	 D10	 D18~21	 D35,36

IC7 RVIBA3706

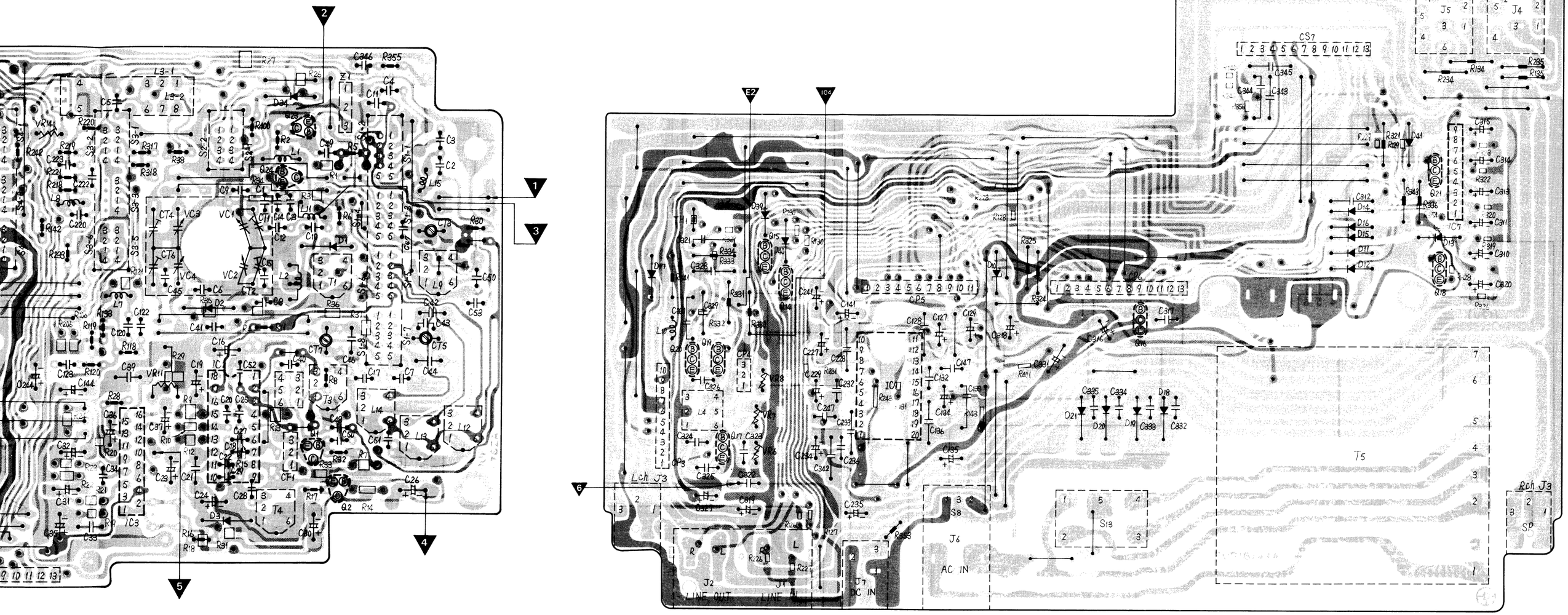


IC9 RVILA4505



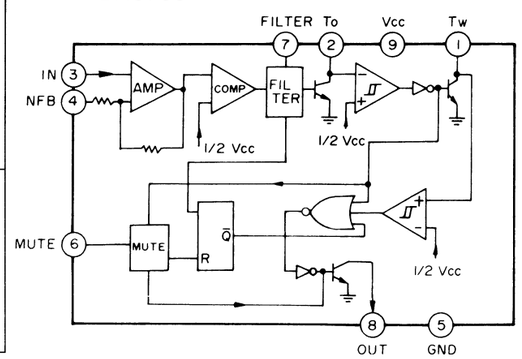


CIRCUIT BOARD MODEL RX-C50F

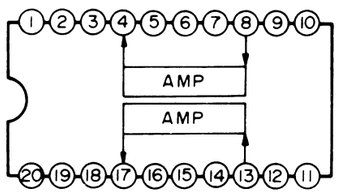


11 … 10	C B E	C B E
9	Q1~6, 8~13, 22~24	Q14,15
ode … de	Cathode Anode	Cathode Anode Anode
0	D18~21	D35,36

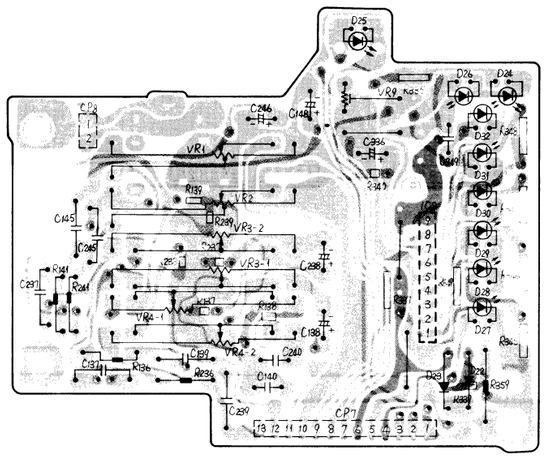
IC7 RVIBA3706



IC9 RVILA4505

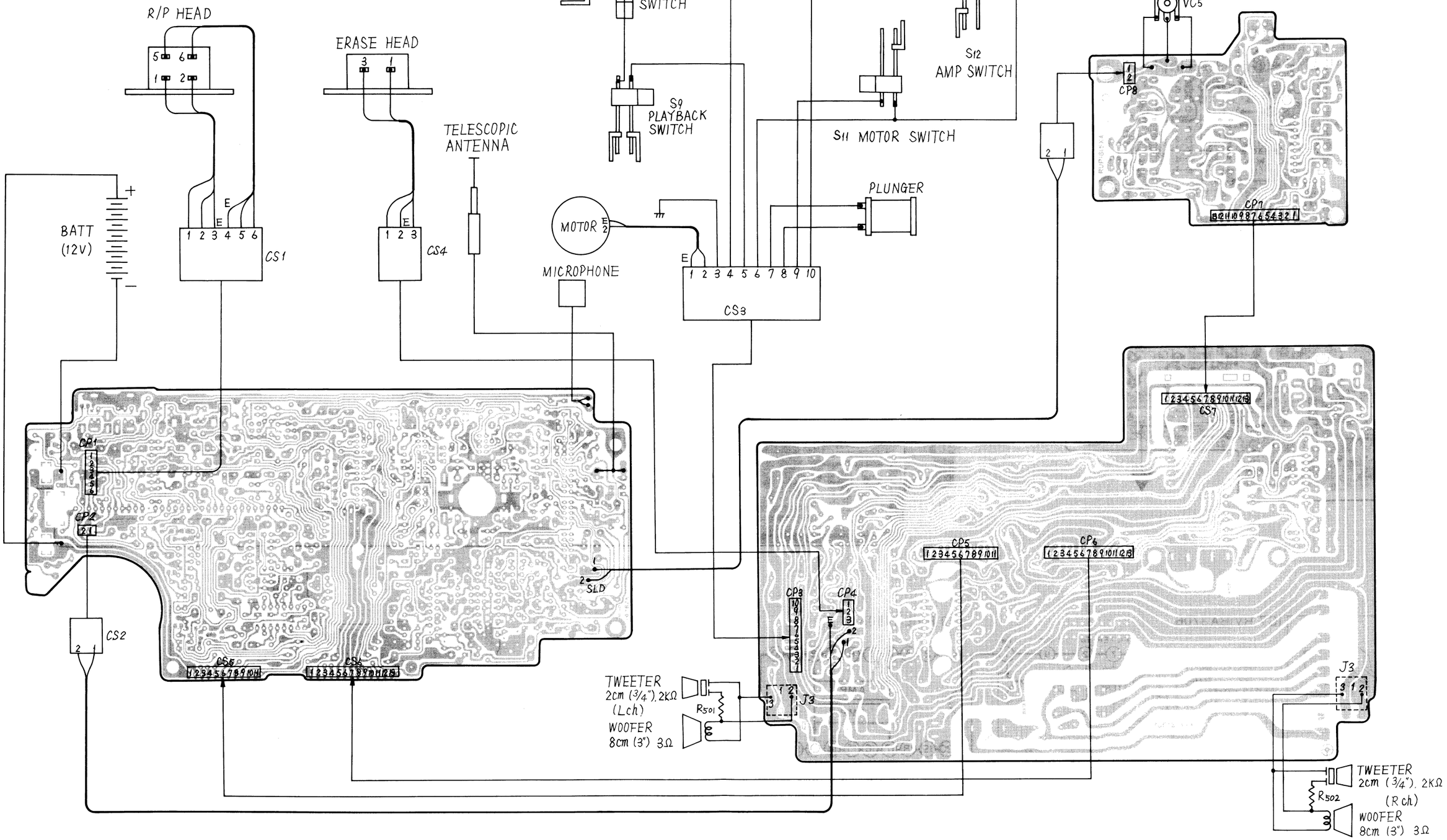


Varicap.	General	Zener	LED	Photo Diode
Anode / Cathode	Anode / Cathode	Anode / Cathode	Anode / Cathode	Cathode / Anode

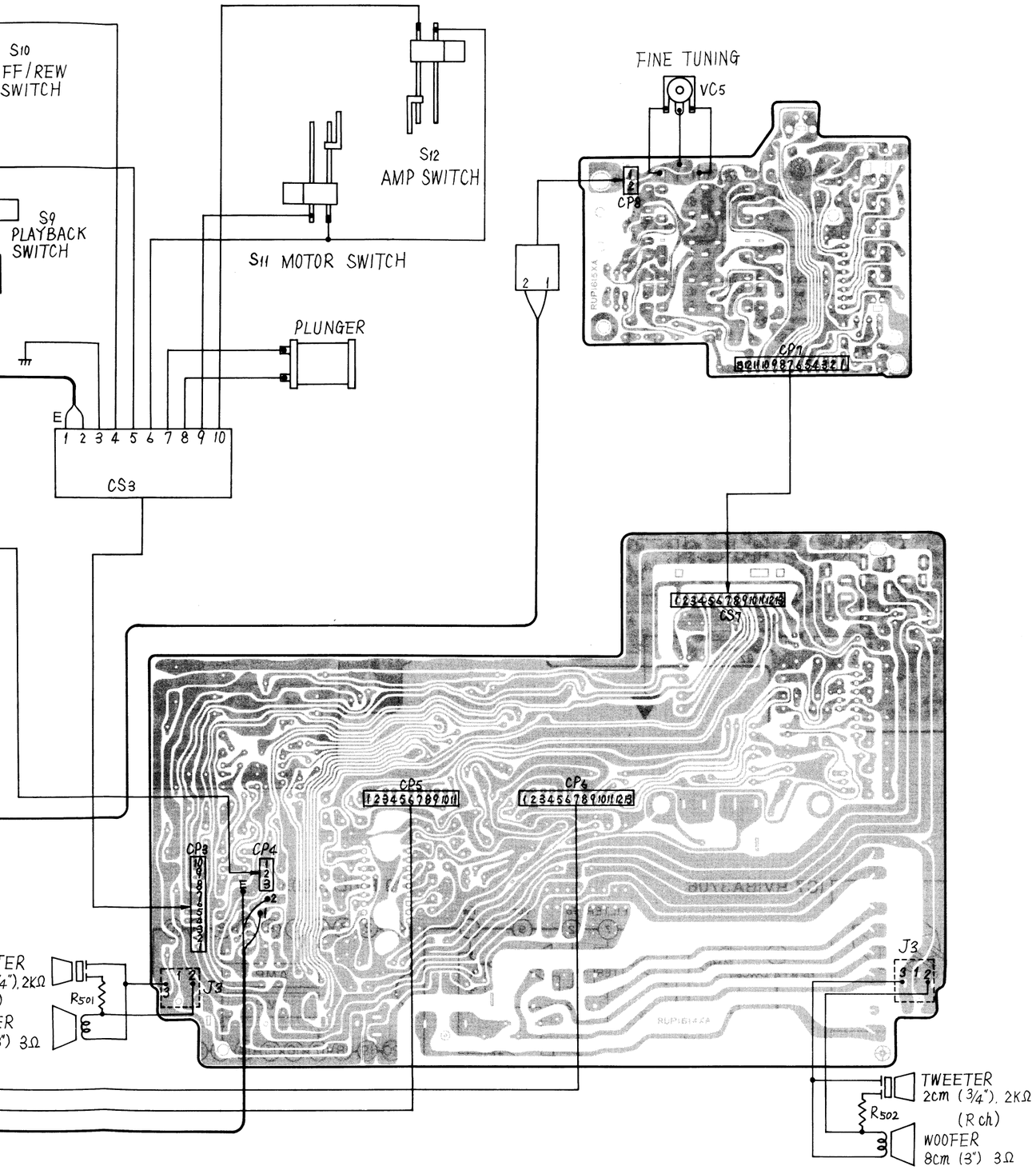


RX-C50F RX-C50F

WIRING CONNECTION DIAGRAM MODEL RX-C50F



CTION DIAGRAM MODEL RX-C50F



MECHANISM PARTS LOCATION

Fig. 21

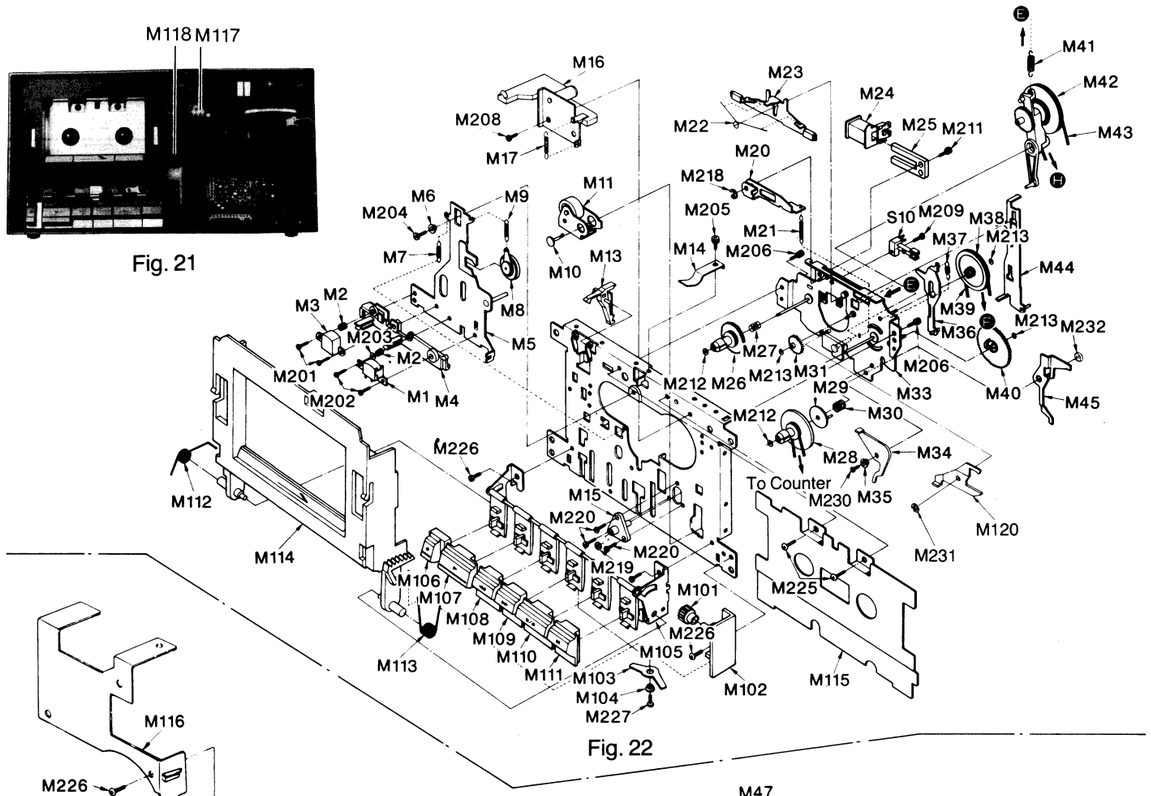


Fig. 22

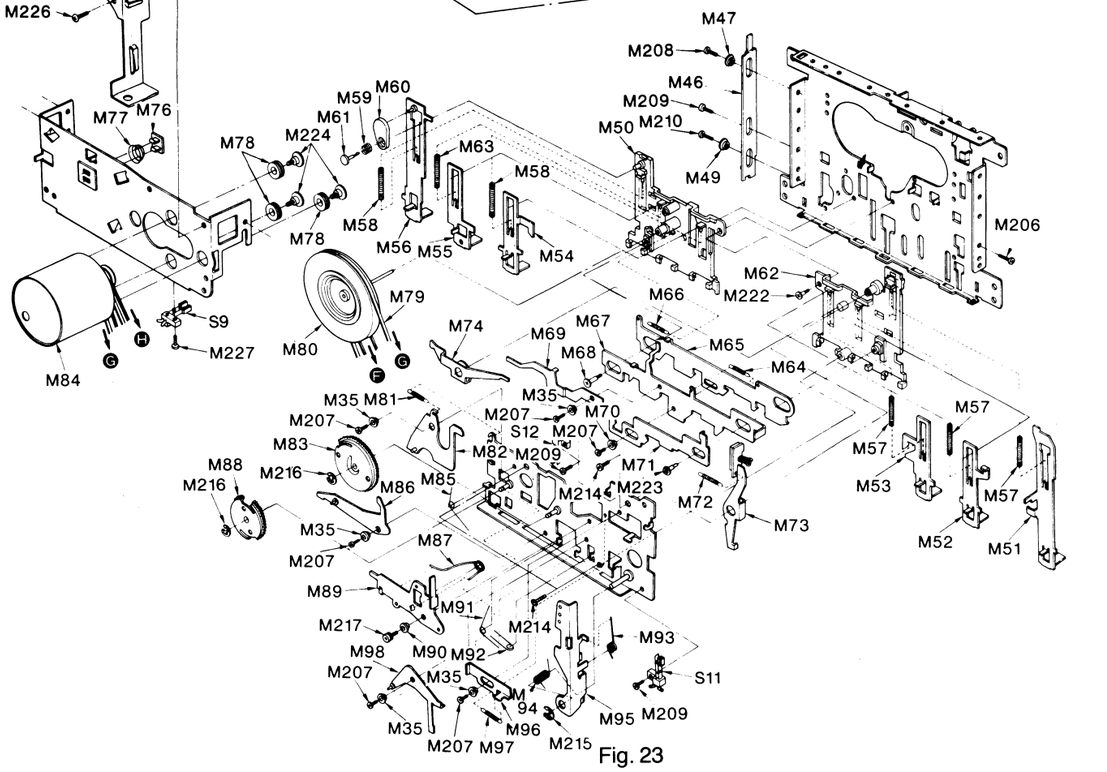


Fig. 23

■ To Remove Motor

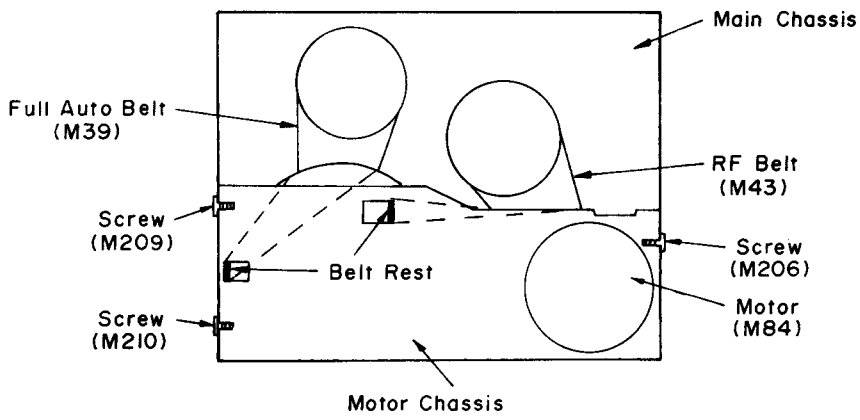


Fig. 24

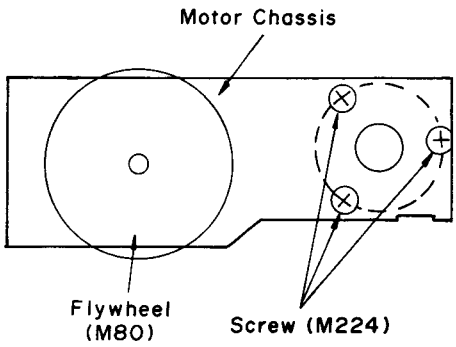


Fig. 25

1. Attach the full auto belt (M39) and RF belt (M43) to the belt rest of motor chassis.
2. Remove three (3) screws (M206, 209, 210).
3. Remove the motor chassis and the flywheel from main chassis.
4. Remove three (3) screws (M224) from motor chassis.
5. To reassemble, reverse the above procedure.

CABINET PARTS LOCATION

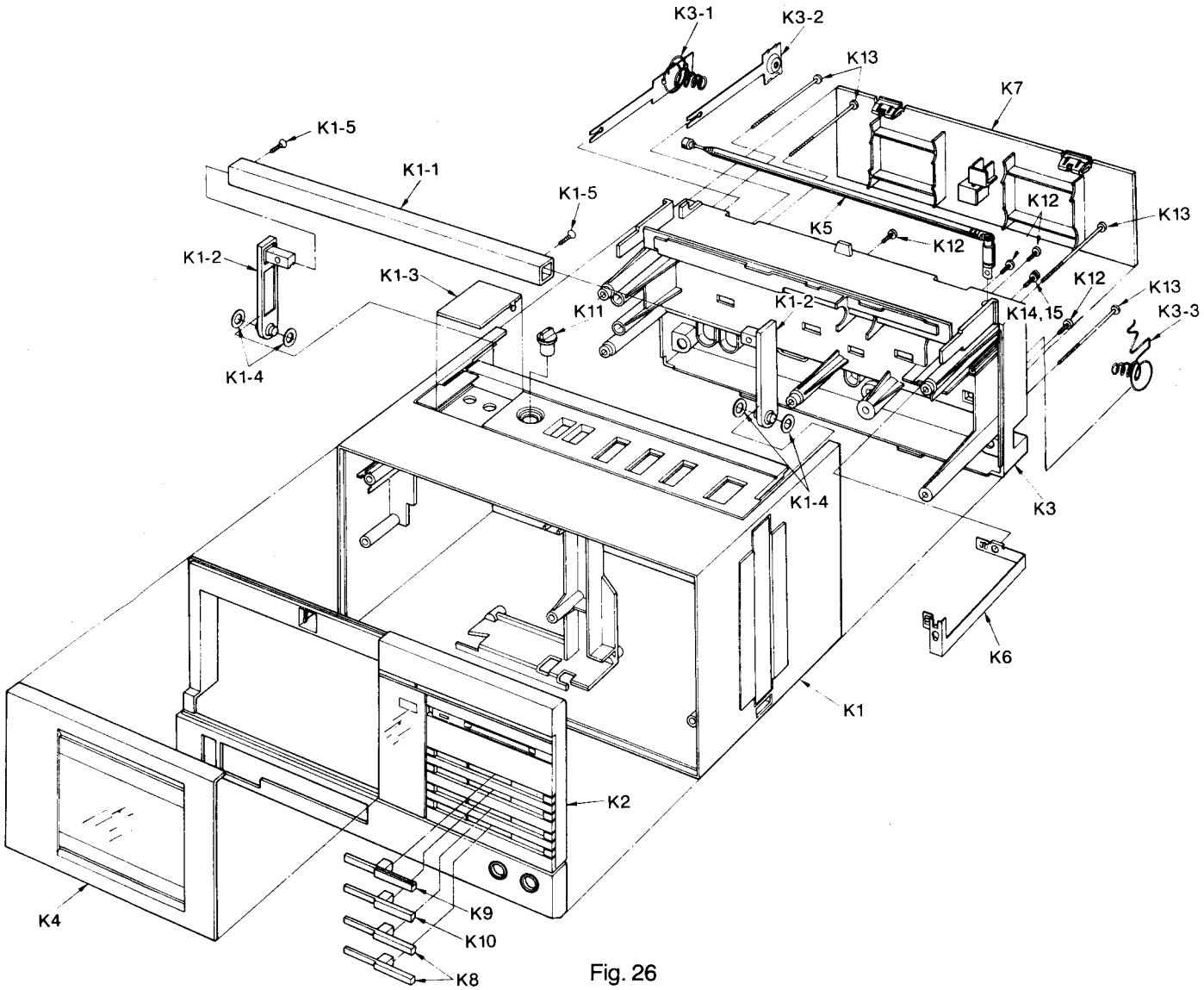


Fig. 26

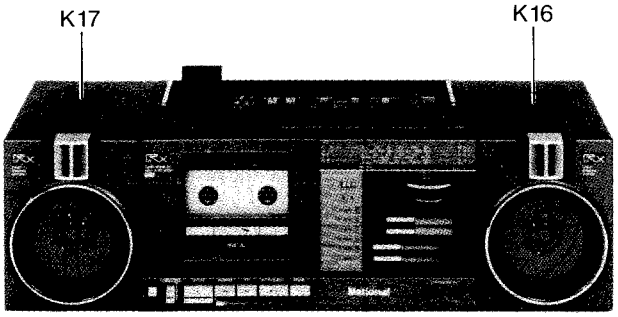


Fig. 27

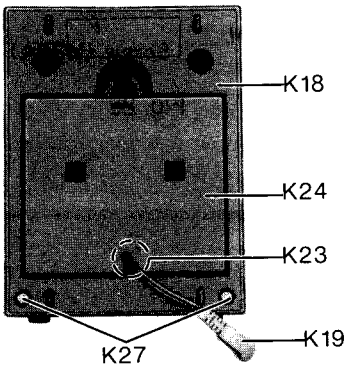


Fig. 28

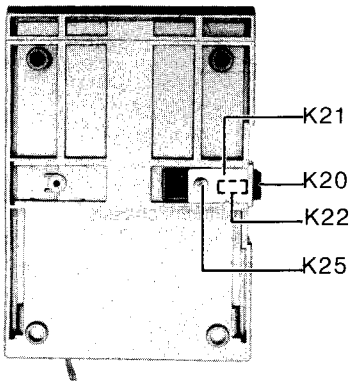


Fig. 29

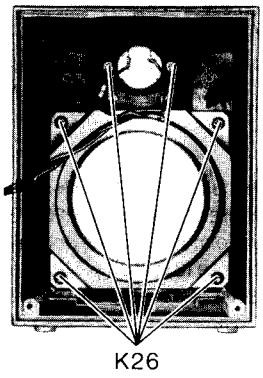


Fig. 30

ELECTRICAL PARTS LOCATION

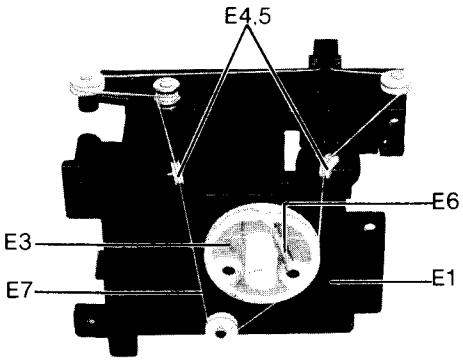


Fig. 31

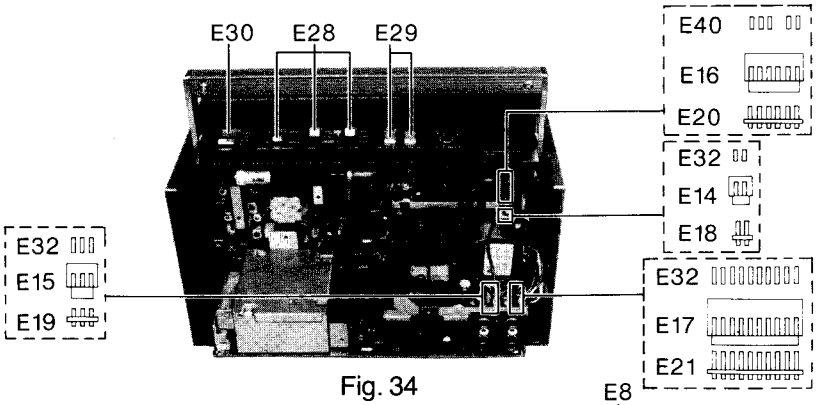


Fig. 34

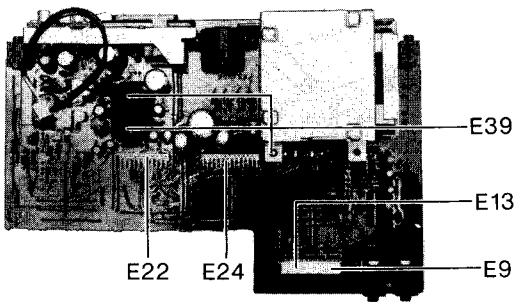


Fig. 32

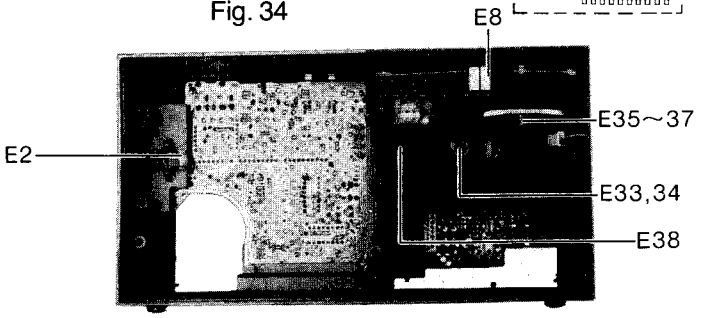


Fig. 35

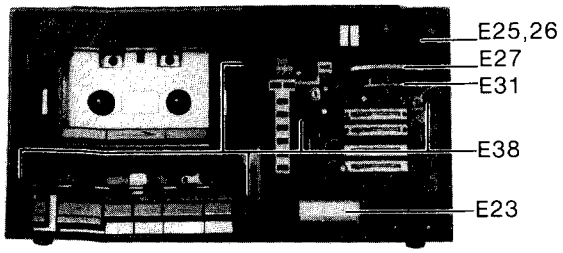


Fig. 33

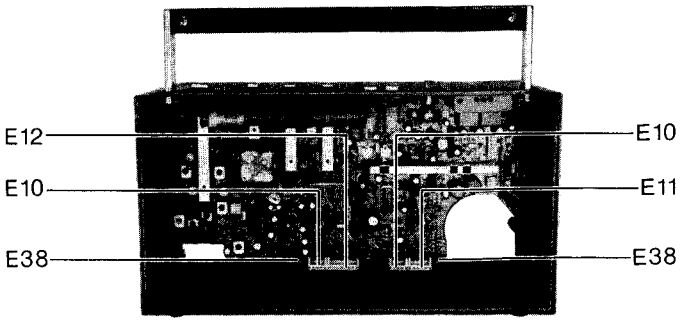


Fig. 36

■ REPLACEMENT PARTS LIST·····Model RX-C50F

(RD82122047C3)

NOTES: 1.Important safety notice.
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2.The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		MECHANICAL PARTS		
M1	RJH2E8Z	Record/Playback Head	1	
M2	RFS166Z	Head Spring	2	
M3	RJH7E3Z	Erase Head	1	
M4	SMQ4768	Head Base	1	
M5	RFD135Z	Head Panel Ass'y	1	
M6	SMQ4168	Head Panel Spacer	1	
M7	SMQ4770	Head Panel Spring	1	
M8	RFI18Z	Take Up Roller Bearing Ass'y	1	
M9	RFS249Z	Take Up Roller Bearing Spring	1	
M10	SMQ4774	Pinch Roller Ass'y Stopper	1	
M11	SMQ4776	Pinch Roller Ass'y	1	
M13	SMQ4778	Erase Safety Lever	1	
M14	SMQ4780	Cassette Pressure Spring	1	
M15	SMQ4782	FL Metal	1	
M16	RFY189Z	Eject Lever	1	
M17	RFS257Z	Eject Lever Spring	1	
M20	RFY184Z	Operation Lever	1	
M21	RFS250Z	Operation Lever Spring	1	
M22	SMQ4792	Brake Arm Spring	1	
M23	SMQ4794	Brake Arm Ass'y	1	
M24	SMQ4796	Coil Ass'y	1	
M25	SMQ4798	Core B	1	
M26	SMQ4800	Supply Reel Table Ass'y	1	
M27	SMQ4802	Back Tension Spring	1	
M28	SMQ4804	Take Up Reel Table Ass'y	1	
M29	SMQ4806	Detector Lever Piece	1	
M30	SMQ4808	Take Up Reel Table Spring	1	
M31	SMQ4810	FF Gear	1	
M33	RFU16Z	Leaf Board Ass'y	1	
M34	SMQ4814	T Roller Kick Lever	1	
M35	SMQ4816	Spacer, T Roller Kick Lever etc.	6	
M36	SMQ4818	Detector Lever	1	
M37	SMQ4820	Detector Lever Spring	1	
M38	SMQ4822	Pulley	1	
M39	SMQ4824	Full Auto Belt	1	
M40	SMQ4826	Cam Gear	1	
M41	RFS255Z	RF Clatch Arm Spring	1	
M42	RFG36Z	RF Clatch Arm Ass'y	1	
M43	SMQ4830	RF Belt	1	
M44	SMQ4832	RF Slide Lever Ass'y	1	
M45	SMQ4834	Auto Lever	1	
M46	RFY190Z	Eject Slide Lever	1	
M47	RFX61Z	Spacer, Eject Slide Lever	1	
M49	RFX62Z	Spacer, Eject Slide Lever	1	
M50	SMQ4836	Button Base (L)	1	
M51	SMQ4844	Record Button Lever	1	
M52	SMQ4846	Playback Button Lever	1	
M53	SMQ4848	REW Button Lever	1	
M54	SMQ4850	FF Button Lever	1	
M55	SMQ4852	Stop, Eject Button Lever	1	
M56	SMQ4854	Pause Button Lever Ass'y	1	
M57	SMQ4856	Button Lever Spring, R/P, REW	3	
M58	SMQ4858	Button Lever Spring, FF, Pause	2	
M59	SMQ4860	Pause Lever Spring	1	
M60	SMQ2444	Pause Lever	1	
M61	SMQ4862	P Stopper	1	
M62	SMQ4840	Button Base (R)	1	
M63	RFS258Z	Button Lever Spring Stop/Eject	1	
M64	RFS252Z	Pressure Button Operation Plate Spring	1	
M65	RFY185Z	Pressure Button Operation Plate	1	
M66	RFS253Z	Switch Operation Plate Spring	1	
M67	SMQ4868	Switch Operation Plate	1	
M68	SMQ4870	Color Screw	1	
M69	SMQ4872	E Kick Lever	1	
M70	SMQ4874	Spacer	1	
M71	SMQ4876	Operation Plate	1	
M72	RFS251Z	TPS Lever Spring	1	
M73	RFY182Z	TPS Lever Ass'y	1	
M74	SMQ4842	Record Stopper	1	
M76	SMQ4920	FL Plate	1	
M77	SMQ4922	Damper Spring	1	
M78	SMQ4916	Motor Rubber	3	
M79	SMQ4898	Main Belt	1	
M80	SMQ4900	Flywheel Ass'y	1	
M81	SMQ4908	REW Spring	1	
M82	SMQ4906	Pause Arm Ass'y	1	
M83	SMQ4894	M Gear	1	
M84	RFM15Z	Motor Ass'y	1	
M85	SMQ4904	P Trigger Arm Spring	1	
M86	SMQ4902	P Trigger Arm Ass'y	1	
M87	RFS248Z	Lift Arm Spring	1	
M88	SMQ4896	P Gear	1	
M89	RFY188Z	Lift Arm Ass'y	1	
M90	SMQ4910	Lift Arm Spacer	1	
M91	SMQ4890	M Trigger Arm Spring	1	
M92	SMQ4888	M Gear Spring	1	
M93	RFS256Z	Record Damper Spring	1	
M94	SMQ4886	Record Operation Arm Spring	1	
M95	RFY187Z	Record Operation Arm	1	
M96	RFY186Z	Record Operation Plate	1	
M97	RFS254Z	Switch Operation Plate Spring	1	
M98	RFY191Z	M Trigger Arm Ass'y	1	
M101	QDG1102	Slow Up Gear	1	
M102	RME307Z	Gear Holder	1	
M103	RHM158Z	FF/REW Lever	1	
M104	RHM157Z	Spacer, FF/REW Lever	1	
M105	RME316Z	Button Ungle	1	
M106	RBC427Z	Record Button	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M107	RBC428Z	Playback Button	1	
M108	RBC429Z	REW Button	1	
M109	RBC430Z	FF Button	1	
M110	RBC431Z	Stop/Eject Button	1	
M111	RBC432Z	Pause Button	1	
M112	RUS490Z	Eject Spring, Left	1	
M113	RUS482Y	Eject Spring, Right	1	
M114	RYQXC50N	Cassette Lid Ass'y	1	
M115	RDH188Z	Cover	1	
M116	RMC856Z	Shield Cover	1	
M117	RSE94Z	Counter	1	
M118	QDB0220	Counter Belt	1	
M120	SMQ4940	Kick Lever	1	
M201	XSN2+8	Screw, Erase Head M'tg	2	S
M202	XSN2+7	Screw, R/P Head	2	
M203	RFN72Z	Washer, R/P Head	1	
M204	XSN26+4	Screw, Head Panel M'tg	1	S
M205	XTN26+3H	Screw, Cassette Pressure M'tg	1	
M206	XYN2+4F	Screw, Leaf Board, etc. M'tg	3	
M207	XSS2+25	Screw, E Kick Lever, etc. M'tg	6	
M208	XYN26+5F	Screw, Eject Slide Lever M'tg		
M209	XSN2+4	Screw, Eject Slide Lever,M'tg	4	S
M210	XYN2+6F	Screw, Eject Slide Lever M'tg	1	
M211	XYN2+5F	Screw, Coil M'tg	1	
M212	SMQ4928	Poly Slider Washer, Reel Table	2	
M213	SMQ4930	Poly Slider Washer, FF Gear	3	
M214	RFE71Z	Screw, Sub Chassis M'tg	3	
M215	XUC3FT	Circlip, Record Operation Arm M'tg	1	S
M216	XUC2FT	Circlip, M, P Gear M'tg	2	S
M217	XYN26+6F	Screw, Lift Arm Ass'y M'tg	1	
M218	XUC15FT	Circlip, Operation Lever M'tg	1	S
M219	SMQ4932	Nylon Washer, FL Metal	1	
M220	XSS2+3	Screw, FL Metal M'tg	3	S
M222	SMQ4838	Color Screw, Button Base (R) M'tg	1	
M223	SMQ4878	Color Screw, E Kick Lever M'tg	1	
M224	SMQ4918	Color Screw, Motor M'tg	3	
M225	XTV26+4FFZ	Screw, Cover M'tg	2	
M226	XTV26+4F	Screw, Button Ungle, etc.	3	
M227	XYN2+C6	Screw, FF/REW Lever	1	
M230	SMQ4944	Screw, T Roller Kick Lever M'tg	1	
M231	XUC12FT	Circlip, Kick Lever M'tg	1	
M232	SMQ4938	Nut, Auto Lever	1	
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES		
IC2	AN7220A	IC	1	
IC3	RVIBA1356	IC	1	
IC4	RVIBA328	IC	1	
IC5,6	RVILM1112BN	IC	2	
IC7	RVIBA3706	IC	1	
IC8	RVIBA6154	IC	1	
IC9	RVILA4505	IC	1	
Q1	2SC1009F4	Transistor (Si)	1	
Q2,8,9,12,13	2SD601Q	Transistor (Si)	5	
Q3	2SB709Q	Transistor (Ge)	1	
Q4,6,22	2SD601R	Transistor (Si)	3	
Q5,10,11	2SC1622AD16	Transistor (Si)	3	
Q14,15	2SD636S	Transistor (Si)	2	
Q16	2SC1568R	Transistor (Si)	1	
Q17,21	2SC945P1	Transistor (Si)	2	
Q18	2SA722-S	Transistor (Ge)	1	S
Q19,20	2SC1317NCR	Transistor (Si)	2	
Q23,24	2SA1022B	Transistor (Ge)	2	
D1,11∿13, 15,16,22,23, 33,34,38∿41	MA161	Diode (Si)	14	
D2	RVDSD113	Diode (Si)	1	
D3	MA1051M	Diode (Si)	1	
D4	MA151WA	Diode (Si)	1	
D6,8	MA153	Diode (Si)	2	
D10	MA1082M	Diode (Si)	1	
D14	MA27WA	Diode (Si)	1	
D17	RVD1N4003A	Diode (Si)	1	
D18∿21	SM112	Diode (Si)	4	S
D24	LN091104P	LED (Ga)	1	
D35	MA151WK	Diode (Si)	1	
		THERMISTOR		
TH1	RRT202	Thermistor	1	
		VARIABLE CAPACITORS		
VC1∿4	RCV4RC2VK	Tuning Capacitor, w/Trimmer Capacitor (CT1,2,4,6)	1	
VC5	RCVMH60C8	Fine Tuning Capacitor	1	
CT3,5,7	RCVTZ11F	Trimmer Capacitor	3	
		CERAMIC FILTERS		
CF1	RVF107MTWAZ	Ceramic Filter	1	
CF2	QCRZZ455A7W	Ceramic Filter	1	
		COMPONENT COMBINATION		
Z1	RXABPMB6AW	Component Combination	1	
		SPEAKERS		
	EAS8P116SA	Speaker, 8cm (3"), 3Ω, Woofer	2	
	EAS2FP01AA	Speaker, 2cm (13/16"), 2kΩ, Tweeter	2	
		SWITCHES		
S1	RST4H07Z	Switch, Band	1	
S2	RST2B33Z	Switch, Mode/Beat Proof	1	
S3,4	RST3F18Z	Switch, Tape, Function	2	
S5	RSH2B25Z	Switch, Dolby Noise Reduction	1	
S6	RSH2B26Z	Switch, Record Muting	1	
S7	RSH2J01V	Switch, Record/Playback	1	
S9	RSH1A32Z	Switch, Playback	1	
S10	SMQ4812	Switch, FF/REW	1	
S11	RFA31Z	Switch, Motor	1	
S12	SMQ4882	Switch, Amplifier	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
S13	RSR4A07Z	Switch, Voltage Selector	1	⚠
		JACKS		
J1,2	RJF1091Z	Jack, Line IN/OUT	1	
J3	QJA0172	Jack, Speaker	2	
J4	RJJ1D10Z	Jack, Headphone 2	1	
J5	RJJ1D11Z	Jack, Headphone 1	1	
J6,7	RJJ1F1Z	Jack, AC IN/DC IN	1	⚠
J8,9	RJJ1D7Z	Jack, Microphone	2	
		COILS AND TRANSFORMERS		
L1	RLD4Y44	Antenna Coil, FM	1	
L2	RLO4Y53	Oscillator Coil, FM	1	
L3	RLF5W6	Antenna Coil, MW, SW1	1	
L4	RLO9C32	Bias Oscillator	1	
L5,6	RLQZM473J	Choke	2	
L9	RLA3M62	Antenna Coil, SW2	1	
L10	RLQZB100K	Choke	1	
L12	RLO2M4	Oscillator Coil, MW	1	
L13	RLO3M18	Oscillator Coil, SW1	1	
L14	RLO3M83	Oscillator Coil, SW2	1	
L16	RLQZA1R0K	Choke	1	
T1,4	RLI4M101	IFT, FM	2	
T3	QLI2M102M	IFT, AM	1	
T5	RLT5Z4G1B	Power Transformer	1	⚠
T6,7	RLE5030	Trap	2	
		VARIABLE RESISTORS		
VR1,2	EWAL5AC10B54	Variable Resistor, 50kΩ (B)	2	
VR3,4	EWAM0AC10A54	Variable Resistor, 50kΩ (A)	2	
VR5∿7,12∿14	EVNA6AA00B54	Variable Resistor, Preset, 50kΩ (B)	6	S
VR8	EVNA6AA00B14	Variable Resistor, Preset, 10kΩ (B)	1	S
VR9,11	EVNM4AA00B14	Variable Resistor, Preset, 10kΩ (B)	2	S
VR10	EVV1E1B14	Variable Resistor, 10kΩ (B)	1	
		RESISTORS (Value is in OHMS)		
R100,200	RRD18XJ100	10 1/8W Chip	2	
R2,6,11,30,355	RRD18XJ101	100 " "	5	
R8	RRD18XJ102	1 k " "	1	
R28,101,201	RRD18XJ104	100 k " "	3	
R5	RRD18XJ151	150 " "	1	
R119,219	RRD18XJ152	1.5 k " "	2	
R107,207	RRD18XJ153	15 k " "	2	
R222	RRD18XJ184	180 k " "	1	
R16,38	RRD18XJ221	220 " "	2	
R142,242	RRD18XJ222	2.2 k " "	2	
R120,220,221	RRD18XJ272	2.7 k " "	3	
R111,211,351	RRD18XJ332	3.3 k " "	3	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R123,223	RRD18XJ333	33 k 1/8W Chip	2	
R17	RRD18XJ391	390 " "	1	
R25	RRD18XJ470	47 " "	1	
R118,124,218,224	RRD18XJ472	4.7 k " "	4	
R110	RRD18XJ473	47 k " "	1	
R32,309	RRD18XJ474	470 k " "	2	
R203	RRD18XJ562	5.6 k " "	1	
R133,233,315	RRD18XJ680	68 " "	3	
R317,318,400	RRD18XJ682	6.8 k " "	3	
R225	RRD18XJ821	820 " "	1	
R350	RRD18XK105	1 M " "	1	
R316	RRD18XK106	10 M " "	1	
R330,341	ERD25FJ1R0	1 1/4W Carbon	2	S
R331	ERD25FJ2R2	2.2 " "	1	S
R324	ERD25FJ4R7	4.7 " "	1	S
R343	ERD25FJ103	10 k " "	1	S
R135,235	ERD25FJ151	150 " "	2	S
R134,234	ERD25FJ181	180 " "	2	S
R321,334	ERD25FJ152	1.5 k " "	2	S
R336	ERD25FJ561	560 " "	1	S
R325	ERD25FJ681	680 " "	1	S
R501,502	ERD25FJ331	330 " "	2	S
R359	ERD50FJ681	680 1/2W "	1	S
R136,236	ERD25FJ123	12 k 1/4W "	2	S
R141,241	ERD25FJ472	4.7 k " "	2	S
R353	ERX1ANJR47	0.47 1W Metal	1	S
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)		
C5,6,20,33,34	ECUX1H223MD	0.022 50V Chip	5	
C340	ECUX1H223ZF	0.022 " "	1	
C347	ECUX1H331K	330 P " "	1	
C126,226	ECUX1H332MD	0.0033 " "	2	
C13	ECUX1H390KC	39 P " "	1	
C29,102,202,339	ECUX1H471K	470 P " "	4	
C17,40	ECUX1H560KC	56 P " "	2	
C103,203	ECUX1H681K	680 P " "	2	
C322,323	ECCD1H101K	100 P " Ceramic	2	
C132,232	ECCD1H220KC	22 P " "	2	
C332∿335	ECKD1H103ZF	0.01 " "	4	
C147,247	ECKD1H681KB	680 P " "	2	
C350	ECKD1H103MD	0.01 " "	1	
C133,233,321	ECBS1C103NY	0.01 16V "	3	
C345	ECBS1E222MX	0.0022 25V "	1	
C145,245	ECBS1E152MX	0.0015 " "	2	
C139,239,328,329	ECBS1E332MX	0.0033 " "	4	
C312	ECBS1E472MX	0.0047 " "	1	
C330	ECBS1E682MX	0.0068 " "	1	
C128,228	ECBS1H102KB	0.001 50V "	2	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C137,237,342∿344				
	ECBT1C223MY	0.022 16V Ceramic	5	
C24,127,129, 134,229,234				
	ECEA1AS101	100 10V Electrolytic	6	S
C307,309,327				
	ECEA1AS221	220 " "	3	S
C16	ECEA1CS330	33 16V "	1	S
C35,104,204,302,348				
	ECEA1AS470	47 10V "	5	S
C308,316,318				
	ECEA1AS471	470 " "	3	S
C19,100,113,116, 144,200,213,216				
	ECEA1HS100	10 50V "	11	S
C324	RCQP2A392JZ	3900 P 100V Polyester	1	
C44,325	RCQP2A152JZ	1500 P " "	2	
C42	RCQP2A361JZ	360 P " "	1	
C39	RCQP2A471JZ	470 P " "	1	
C46	RCQP2A472JZ	4700 P " "	1	
C136,236,317				
	ECQG05224JZ	0.22 50V "	3	
C109,209	ECQG05104JZ	0.1 " "	2	
C21,140,240,337				
	ECFT1E223MD	0.022 25V Semi-Conductor	4	
C101,111,201,211				
	ECFT1E333KD	0.033 " "	4	
C107,207	ECFT1E472KA	0.0047 " "	2	
C326	ECFT1E683MD	0.068 " "	1	
C349	ECFT1E473MD	0.047 " "	1	
C41,119,219				
	ECUX1E104MD	0.1 " Chip	3	
C18,27,49,51, 52,114,118,123, 214,218,223				
	ECUX1E473MD	0.047 " "	11	
C122,222	ECUX1E683MD	0.068 " "	2	
C45,60	ECUX1H030CC	3 P 50V "	2	
C1,47	ECUX1H040CC	4 P " "	2	
C8,12,43	ECUX1H070DC	7 P " "	3	
C7	ECUX1H270KC	27 P " "	1	
C2,4	ECUX1H100KC	10 P " "	2	
C346	ECUX1H101K	100 P " "	1	
C10,112,212,341				
	ECUX1H102MD	0.001 " "	4	
C50	ECUX1H102ZF	0.001 " "	1	
C14,22,53	ECUX1H103MD	0.01 " "	3	
C28,48	ECUX1H103ZF	0.01 " "	2	
C125,225	ECUX1H152MD	0.0015 " "	2	
C120,220	ECUX1H153MD	0.015 " "	2	
C15	ECUX1H150KC	15 P " "	1	
C9	ECUX1H200JC	20 P " "	1	
C3	ECUX1H220KC	22 P " "	1	
C25	ECUX1H221K	220 P " "	1	
C244,336,338				
	ECEA1HS100	10 " Electrolytic	3	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C135,235	ECEA1AS102	1000 10V Electrolytic	2	S
C314,320	ECEA1ES220	22 25V "	2	S
C227	ECEA1ES101	100 " "	1	S
C26,30,117,217,306				
	ECEA25Z4R7	4.7 " "	5	S
C303	ECEA1HK0R1	0.1 50V "	1	
C37,146,246,301				
	ECEA1HSR22	0.22 " "	4	
C23,138,238,300,305				
	ECEA1HS0R1	0.1 " "	5	
C105,108,124, 205,208,224				
	ECEA1HSR33	0.33 " "	6	
C31,32,36,141, 143,241,243,304				
	ECEA50Z1	1 " "	8	S
C142,242	ECEA50Z3R3	3.3 " "	2	S
C310,311,313,315				
	ECEA50ZR47	0.47 " "	4	S
C331	ECEA1EU332	3300 25V "	1	
C319	ECEA1EU471	470 " "	1	
		CABINET PARTS		
K1	RYMXC50FX91	Cabinet Ass'y, Metallic Gray	1	
K1	RYMXC50FX8	Cabinet Ass'y, Silver	1	
K1	RYMXC50FX2	Cabinet Ass'y, Metallic Red	1	
K1-1	RKX265Z1	Handle, For Metallic Gray Cabinet	1	
K1-1	RKX265Z	Handle, For Silver Cabinet	1	
K1-1	RKX265Z2	Handle, For Metallic Red Cabinet	1	
K1-2	RKX255Z	Arm, Handle	2	
K1-3	RGE70Z1	Cover, For Metallic Gray Cabinet	1	
K1-3	RGE70Z	Cover, For Silver Cabinet	1	
K1-3	RGE70Z2	Cover, For Metallic Red Cabinet	1	
K1-4	RNW591Z	Washer, Arm	4	
K1-5	XTC3+8CFN	Screw, Handle M'tg	2	
K2	RYF1XC50FX91	Front Cabinet Ass'y, Metallic Gray	1	
K2	RYF1XC50FX8	Front Cabinet Ass'y, Silver	1	
K2	RYF1XC50FX2	Front Cabinet Ass'y, Metallic Red	1	
K3	RYF2XC50FX91	Rear Cabinet Ass'y, Metallic Gray	1	
K3	RYF2XC50FX7	Rear Cabinet Ass'y, Silver	1	
K3	RYF2XC50FX2	Rear Cabinet Ass'y, Metallic Red	1	
K3-1	RJC611Z	Spring, - Side	1	
K3-2	RJC116Z	Terminal, + Side	1	
K3-3	RJC937Z	Terminal, +, - Side	1	
K4	RYPXC50N1	Cassette Panel Ass'y, Metallic Gray	1	
K4	RYPXC50FX	Cassette Panel Ass'y, Silver	1	
K4	RYPXC50N2	Cassette Panel Ass'y, Metallic Red	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
K5	XEARR175FAY	Telescopic Antenna	1	
K6	RJT781Z	Terminal, Telescopic Antenna	1	
K7	RKK232Z91	Cover, Battery Compartment, Metallic Gray	1	
K7	RKK232Z7	Cover, Battery Compartment, Silver	1	
K7	RKK232Z2	Cover, Battery Compartment, Metallic Red	1	
K8	RBD169Z	Knob, Bass & Treble	2	
K9	RBD183Z	Knob, Volume L	1	
K10	RBD184Z	Knob, Volume R	1	
K11	RBS203Z	Knob, Mixing	1	
K12	XSB3+6FN	Screw, Cabinet M'tg	4	
K13	XTB3+60BFN	Screw, Cabinet M'tg	5	
K14	XSN3+8S	Screw, Telescopic Antenna M'tg	1	S
K15	XWA3B	Washer	1	S
K16	RYM1XC50FX91	Speaker Box Ass'y, Right, Metallic Gray	1	
K16	RYM1XC50FX8	Speaker Box Ass'y, Right, Silver	1	
K16	RYM1XC50FX2	Speaker Box Ass'y, Right, Metallic Red	1	
K17	RYM2XC50FX91	Speaker Box Ass'y, Left, Metallic Gray	1	
K17	RYM2XC50FX8	Speaker Box Ass'y, Left, Silver	1	
K17	RYM2XC50FX2	Speaker Box Ass'y, Left, Metallic Red	1	
K18	RKF612Z91	Cover, Speaker Box, Metallic Gray	1	
K18	RKF612Z7	Cover, Speaker Box, Silver	1	
K18	RKF612Z2	Cover, Speaker Box, Metallic Red	1	
K19	RJP0F2Z	Plug with Cord, Speaker	1	
K20	RGE71Z	Lever, Speaker	2	
K21	RUL684Z	Bracket, Lever	2	
K22	RDS4131Z	Spring, Lever	2	
K23	RHR116A	Bushing	2	
K24	RKE419Z1	Cover, Metallic Gray	2	
K24	RKE419Z	Cover, Silver	2	
K24	RKE419Z2	Cover, Metallic Red	2	
K25	XTB3+10CFN	Screw, Lever M'tg	2	
K26	XTV3+10G	Screw, Speaker M'tg	8	
K27	XTV3+10GFN	Screw, Speaker Cover M'tg	8	
		ELECTRICAL PARTS		
E1	RZAXC50N	Dial Chassis Ass'y	1	
E2	RUB266Y	R/P Lever	1	
E3	RDD328Z	Drum, Dial	1	
E4	RDR21-1	Pulley, Dial	2	
E5	RDY43Z	Shaft, Pulley	2	
E6	RDS4060A	Spring, Dial	1	
E7	RDZ05Z	Cord, Dial	1 ROLL	
E8	RDP851Z	Pointer, Dial	1	
E9	RJS3M1Z	Socket, 3 Pin	1	
E10	RJS5M2Z	Socket, 5 Pin	2	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
E11	RJS6M2Z	Socket, 6 Pin	1	
E12	RJS8M2Z	Socket, 8 Pin	1	
E13	RJS10M1Z	Socket, 10 Pin	1	
E14	RJS2L3Z	Socket, 2 Pin	2	
E15	RJS3L3Z	Socket, 3 Pin	1	
E16	RJS6L2Z	Socket, 6 Pin	1	
E17	RJS10L3Z	Socket, 10 Pin	1	
E18	RJP2G4Y	Plug, 2 Pin	2	
E19	RJP3G4Z	Plug, 3 Pin	1	
E20	RJP6G1Z	Plug, 6 Pin	1	
E21	RJP10G4Z	Plug, 10 Pin	1	
E22	RJP11G5Z	Plug, 11 Pin	1	
E23	RJP13G3Z	Plug, 13 Pin	1	
E24	RJP13G5Z	Plug, 13 Pin	1	
E25	WM063X	Microphone	1	
E26	RHG557Z	Rubber, Microphone	1	
E27	RBT158Z	Knob, Tuning	1	
E28	RBS204Z	Knob, Tape, Mode Etc.	3	
E29	RBC415Z	Button, Rec Mute & Dolby NR	2	
E30	RBS214Z	Knob, Band	1	
E31	RBT169Z	Knob, Fine Tuning	1	
E32	RJT707Z	Terminal, Socket	17	
E33	XSN26+5	Screw, Dial Chassis M'tg	1	S
E34	XWA26B	Washer	1	S
E35	XSN3+6S	Screw, Tuning Knob M'tg	1	S
E36	XWA3B	Washer	1	S
E37	XWG	Washer	1	S
E38	XTV3+12G	Screw, Circuit Board Etc. M'tg	9	
E39	XTV3+8BFN	Screw, Heat Sink M'tg	3	S
E40	RJT462X	Terminal, Socket	5	
		ACCESSORIES		
	RJA21Z	Power Cord, AC	1	⚠
	RJP120ZS	Plug, Power Cord	1	⚠
	RJN34Z	Cassette Tape	1	
		PACKING MATERIALS		
	XZB45X40A04	Polyethylene Cover, Main Unit	1	S
	RPH401Z	Soft Sheet	1	
	XZB26X35A04	Polyethylene Cover, Speaker Unit	2	S
	RPN9426Y	Pad Complete	1	
	RPK1539Z	Gift Box	1	
		PRINTED MATERIAL		
	RQX4093Z	Instruction Book	1	